



Body deserves. Mind desires. Soul delighted.



打造绿色未来

主讲者：

亚太区经理

市场营销经理

2009年12月16日

— 孙涛先生

— 杨蔼玲小姐

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内容

- ✦ 巴斯夫概况
- ✦ 焦点话题
- ✦ 能耗
- ✦ 零售倡导者
- ✦ 洗涤过程减少细菌
- ✦ **MOOO>TM** 解决方案
 - 洗涤过程中的节能
- ✦ **MOOO>TM** 知识与应用领域
- ✦ **MOOO>TM** 品牌
- ✦ **MOOO>TM** 染整工艺
- ✦ 提问



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巴斯夫 – The Chemical Company



- ✦ 全球領先的化學公司
- ✦ 源于1865 年并拥有超过140 年历史
- ✦ 为各行各业提供智能解决方案和高价值产品
- ✦ 2008 年銷售額：約620 億歐元
- ✦ 2008 年底員工數：約97,000人

塑造未來



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获取高于资本
成本的利润

帮助我们的
客户更成功

巴斯夫 -
The Chemical
Company

建立行业
最佳团队

确保可
持续发展

广泛的业务和生产网络

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全球最大的综合生产基地



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- ✦ 巴斯夫最大的 Verbund基地位于德国的Ludwigshafen, 占地约十平方公里
- ✦ 巴斯夫的资产中心及科技研发平台
- ✦ 在密集的网络生产高价值产品



巴斯夫的产品和智能解决方案



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化学品



塑料



特性产品



功能性
解决方案



农业
解决方案



石油和天然气

无机化学品

特性聚合物

分散体和
颜料

催化剂

作物保护

石油和
天然气

石油化学品

聚氨酯

护理化学品

化学建材

中间体

造纸化学品

涂料

特性化学品

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绿色未来

有利于环境的可持续发展



焦点话题

— 环保纺织品

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- ✦ 可再生的纺织品或生物可分解纺织品
- ✦ 生产过程中不释放有毒化学物的纺织品
- ✦ 生产过程中材料消耗较少的纺织品
- ✦ 较少环境排放物的纺织品
- ✦ 生产过程中和消费者使用过程中能耗较少的纺织品
- ✦ 还有更多……



内容

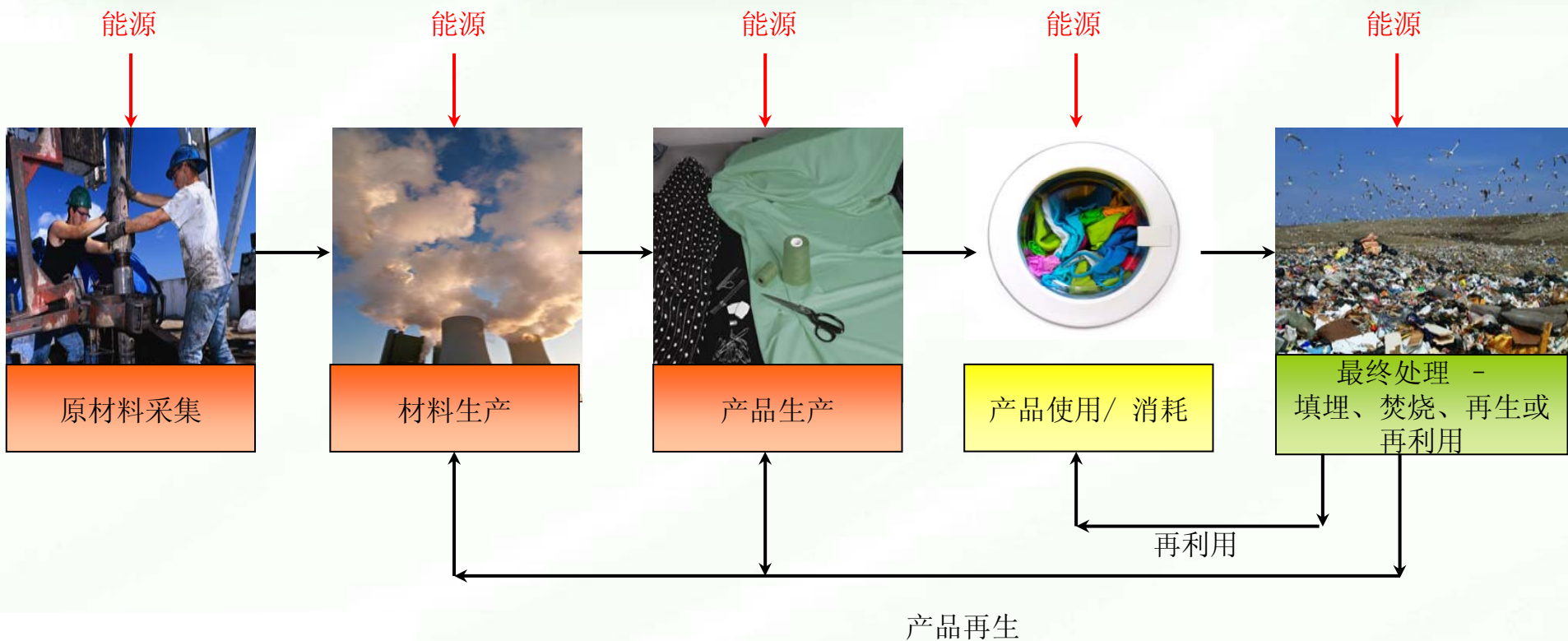
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能源消耗

- 从生产到最终处理

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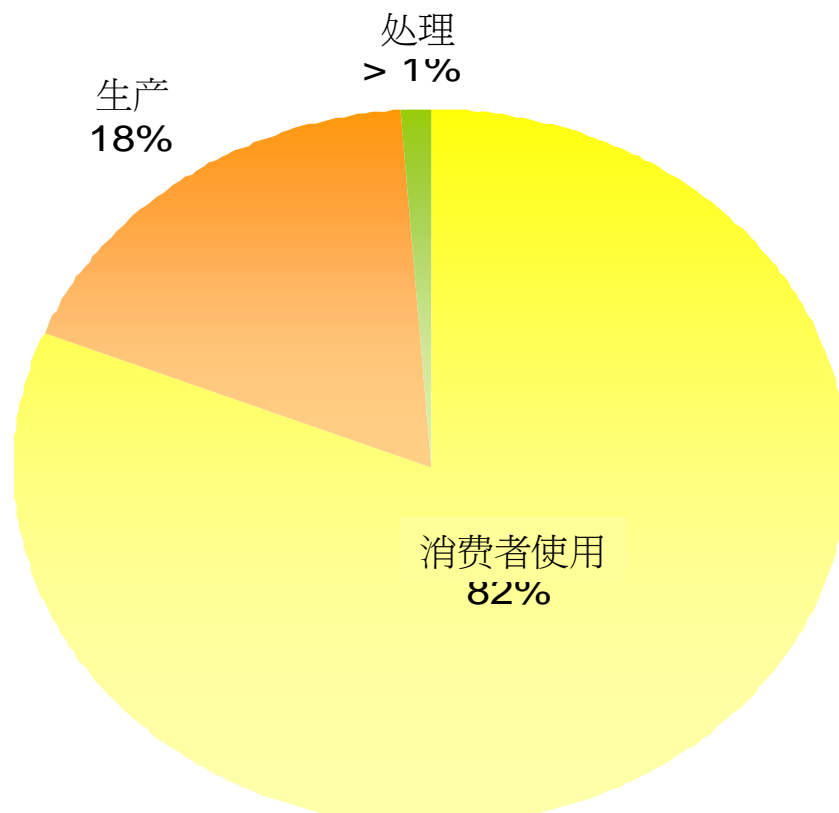
能源消耗

— 一百万件涤纶女衬衫



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- ✦ 从生产、消费到处理
- ✦ 对环境造成多种影响
- ✦ 主要影响是消费者在服装使用寿命中引起的能耗
- ✦ 占能源消耗的 82%



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零售倡导者

- 推广低能耗使用



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YOUR M&S



- ★ 2007年1月启动“生态计划”，目标是2012年使公司达成碳中和
 - 装设绿色概念店：能耗降低25%，二氧化碳排放减少50%
- ★ 重新标签纺织品的使用说明：
 - 将四分之三服装系列的洗涤温度降为30°C
 - 既经济又有利于环境 - 每次洗涤可节约约40%
- ★ 如果英国所有家庭将洗涤温度降为30°C，所节省的电能可以为英国全部街灯提供10个月的照明电力

零售倡导者 - 推广低能耗使用



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WAL*MART

- ✦ 在可持续发展方面保持业界领导者的地位
- ✦ 在美国开设节能20% 的《高效》店铺，这些店铺通过整合业界领先的加热、冷却和制冷系统来节约能源



- ✦ 重新标签服装的使用说明，建议洗涤时使用冷水，从而将洗涤时对环境的影响降到最低
- ✦ 建议将英国店铺中的George品牌系列的洗涤温度从40°C降到30°C

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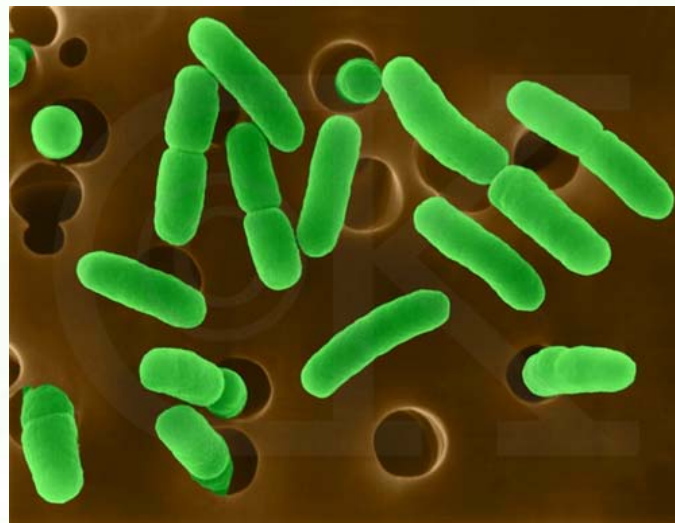


纤维上的细菌



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- ✦ 纤维为细菌提供了各种生存条件：
 - 食物：油剂、污垢、灰尘以及纤维本身
 - 水：排汗
 - 氧
 - 温度
- ✦ 最佳条件：25-37°C，pH 5-9
- ✦ 细菌喜爱寄生于织物纤维上
- ✦ 关键是《水》



大肠杆菌 0157 (x 22K)

抗菌的方法



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★ 抗菌处理（纤维阶段或织物阶段）

- 附加过程？
- 是否耐久？
- 对皮肤是否敏感？
- 是否会对污水处理有潜在的风险？

或

- ★ 选择可以抑制细菌滋长的纤维，
例如 **MOOO>™**



MOOO>™ 解决方案

- 抑制细菌滋长

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24小时后的微生物数量 - EN1174

织物	微生物数量/ml 平均数
MOOO>™	0.00
丙纶	0.00
丙纶 (炭黑)	170.95
涤纶	109.62
尼龙	80.47

44小时后的微生物数量 - EN1174

织物	微生物数量/ml 平均数
MOOO>™	66.67
丙纶	100.00
丙纶 (炭黑)	200.00
涤纶	166.67
尼龙	233.33



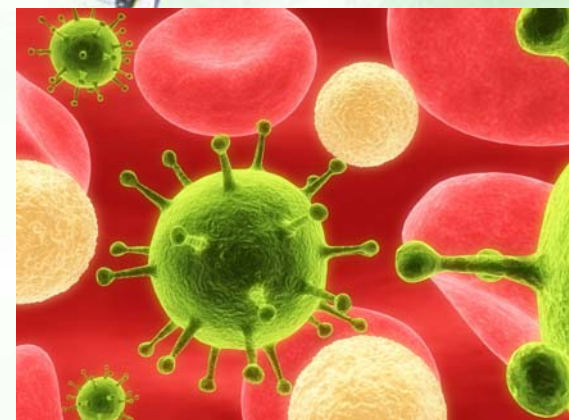
回潮率



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纤维	
丙纶	0.04
涤纶	0.40
腈纶	1.60
尼龙	4.50
醋脂	6.50
棉	8.00
丝绸	11.00
粘胶	12.00
羊毛	15.00



丙纶纤维的低回潮率和高度疏水性，令其拥有极好的抑制细菌滋长的功能。

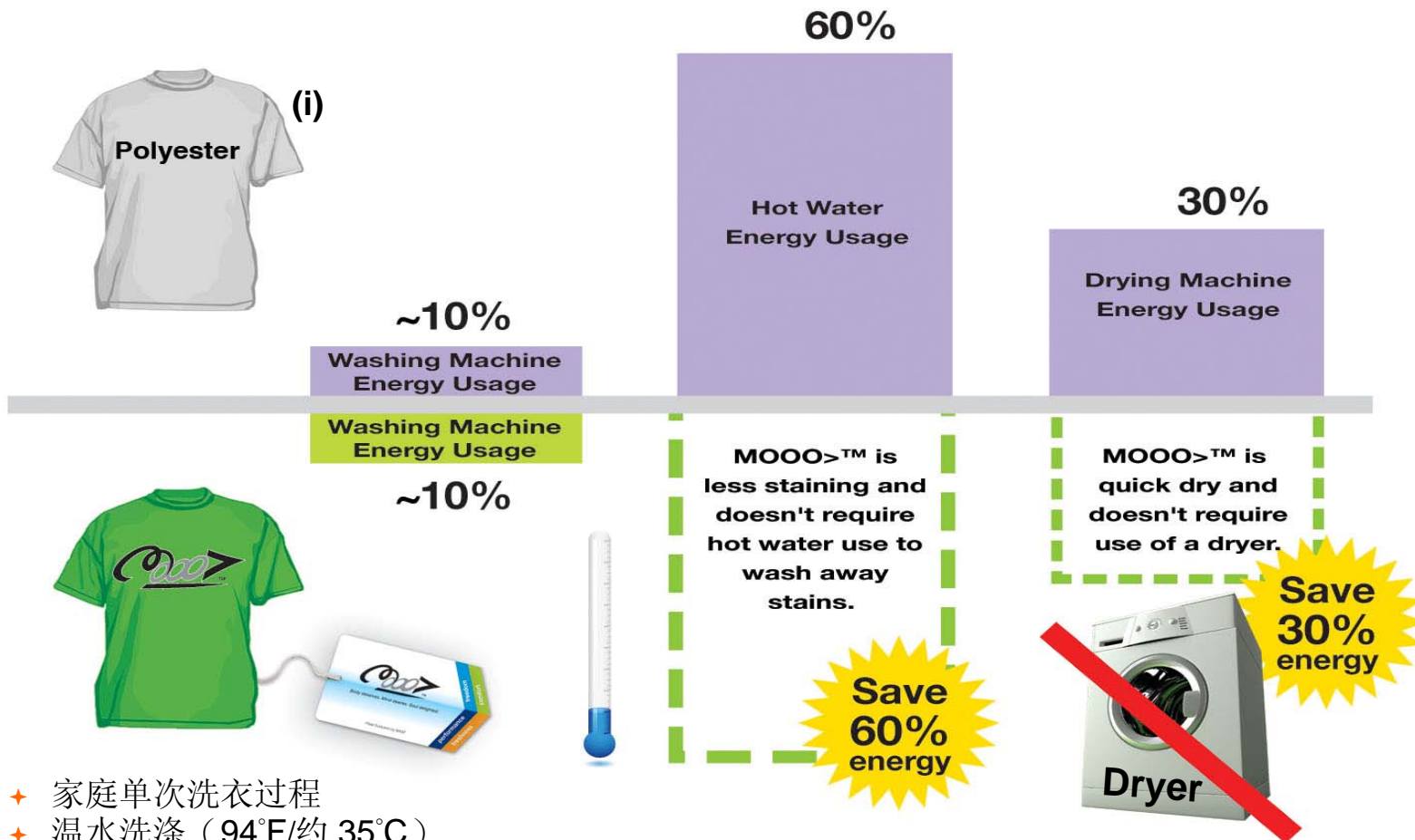
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洗涤过程中的节省能源 - 有效能耗

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- ✦ 家庭单次洗衣过程
- ✦ 温水洗涤 (94°F/约 35°C)
- ✦ 冷水冲洗
- ✦ 滚筒烘干15分钟

来源：(i) Franklin Associates, Ltd.

洗涤过程中的节能

- MOOO>™ 的优点



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MOOO>™ 的多种优点:

- ✦ 低含水率有抑制细菌滋长并减少异味
- ✦ 快干故无需熨烫或滚筒烘干
- ✦ 防污染性佳，无需使用热水洗涤去污
- ✦ 耐用性强，令产品服用周期得以延长
- ✦ 无皮肤敏感性问题的
- ✦ 低温洗涤可节约电力
- ✦ 因为减少耗电、耗水及降低二氧化碳排放，所以减少对环境的影响



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聚丙烯/丙纶 (PP) 的介紹



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聚丙烯	
$\begin{array}{ccccccc} & \text{CH}_3 & & \text{CH}_3 & & \text{CH}_3 & \\ & & & & & & \\ - & \text{C} & - \text{CH}_2 & - & \text{C} & - \text{CH}_2 & - & \text{C} & - \text{CH}_2 & - \\ & & & & & & \\ & \text{H} & & \text{H} & & \text{H} & \end{array}$	
IUPAC名称	poly(1-methylethylene)
其它名称	Polypropylene; Polypropene; Polipropene 25 [USAN]; Propene polymers; Propylene polymers; 1- Propene homopolymer
标认符号	
CAS number	[9003-07-0]
性能	
分子式	$(\text{C}_3\text{H}_6)_x$
密度	非结晶: 0.85 g/cm^3 结晶: 0.95 g/cm^3
熔点	$\sim 165 \text{ }^\circ\text{C}$

- ✦ 以任何实质是长链聚合物组成，并含至少**85%**重量丙烯单位的合成纤维
- ✦ 聚丙烯纤维是由丙烯聚合，并通过以特殊催化剂作控制
- ✦ 在**1957**年意大利蒙特卡蒂尼公司首次成功地聚合成聚丙烯
- ✦ 聚丙烯的商业影响开始于**20世纪60年代**

纤维特性比较



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各种未改性的纤维属性比较

特性	丙纶	涤纶	尼龙	聚丙烯腈	棉	羊毛	丝
密度 (g/cm ³)	0.9	1.38	1.08	1.16	1.54	1.32	1.34
抗水污性	优异	良好	一般	良好	一般	一般	一般
抗氯漂白	优异	良好	良好	良好	良好	一般	一般
回潮率 (%)	0.05	0.40	4.50	2.00	8.00	16.00	11.00
耐用性	优异	优异	良好	一般	一般	一般	一般
绝缘材料性 (空气 =1)	0.17	0.14	0.1	0.14	0.06	0.14	0.14
抗化学品和抗菌性	优异	良好	优异	良好	良好	一般	一般

- ✦ MOOO>TM 是一种由聚丙烯制成的纤维，经过改性，可以用分散染料进行染色
- ✦ MOOO>TM 的分子式为 (C₃H₆)_n

MOOO>TM 温度调节测试

[ASTM D1518]



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织物	保温率 (%)	导热性 (W/m ² ·° C)	Clo (克洛)	热阻 (m ² ·° C/W)
MOOO>TM	37.27	22.97	0.28	0.0437
丙纶(白色)	36.49	23.72	0.27	0.0424
丙纶(炭黑)	25.99	35.46	0.19	0.0290
涤纶	21.24	44.53	0.15	0.0227
尼龙	23.27	40.09	0.16	0.0249

- ✦ MOOO>TM 与白色丙纶导热性较低
- ✦ MOOO>TM 与白色丙纶可提供较高保温率

传统丙纶纤维的缺陷



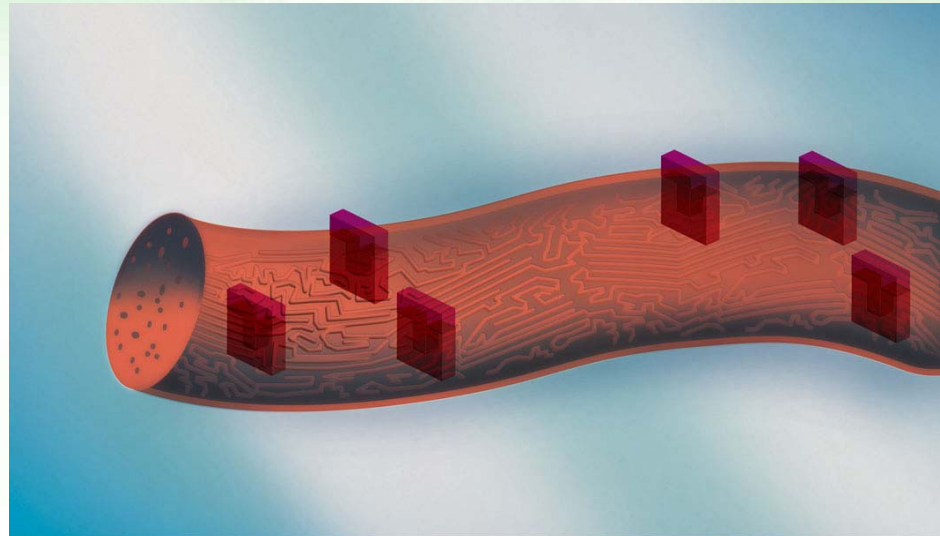
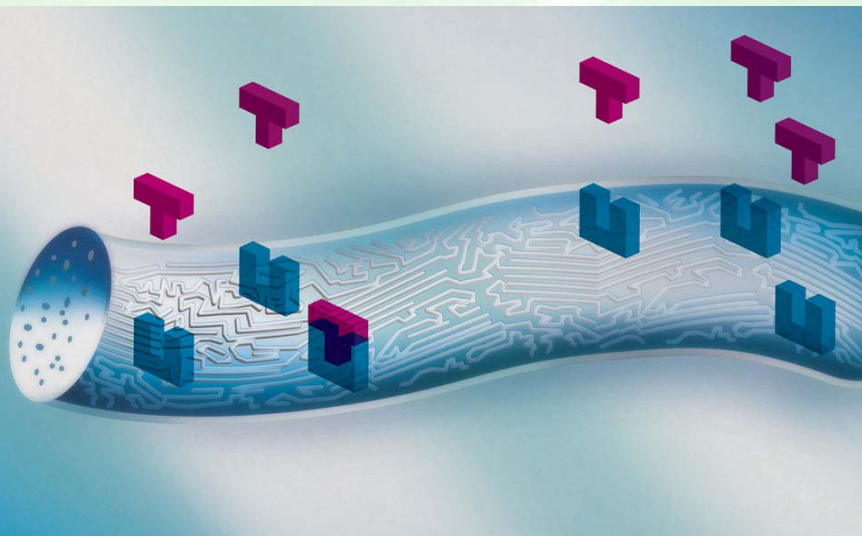
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- ✦ 因为丙纶纤维不含有任何上染基团所以染料无法留在丙纶纤维内部
- ✦ 无法在水浴状态下染色
- ✦ 唯一的染色方法是在纺丝阶段加入涂料色母粒做成色丝

巴斯夫MOOO>™纤维新技术

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- ✦ 巴斯夫纤维新技术在传统丙纶纤维内种植了具有可以和染料结合的基点（上染位置）
- ✦ 这些基点可以与染料永久结合从而使得水浴染色得以实现

巴斯夫MOOO>™纤维新技术



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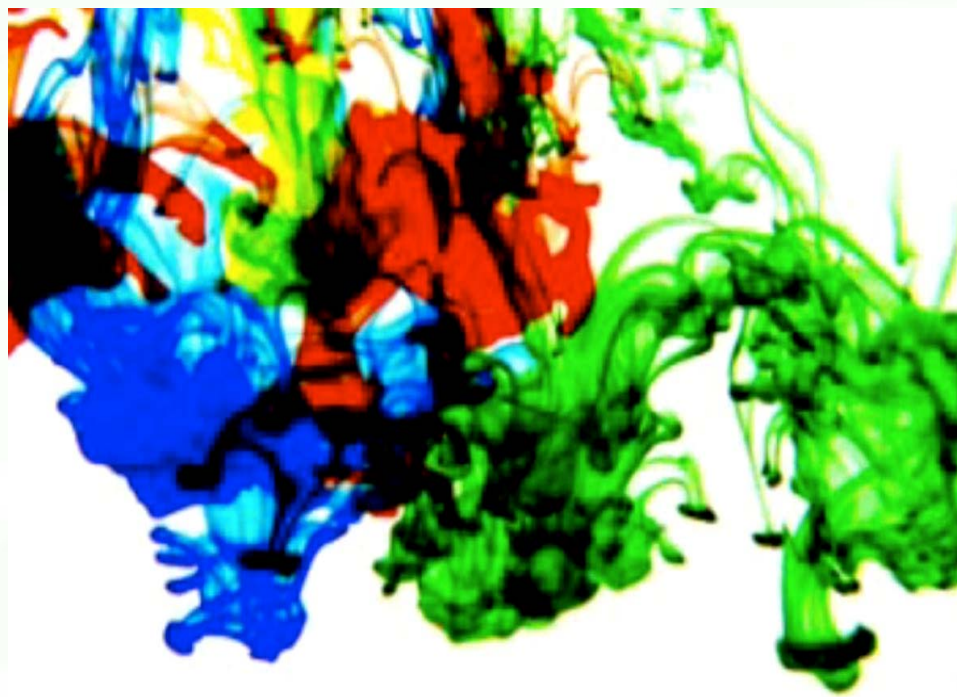
MOOO>™ 可以以织物形式用分散染料进行染色和印花

巴斯夫MOOO>™纤维新技术带来的益处



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- ✦ 纺织生产的灵活性大大增强，对市场的快速反应得以体现
- ✦ 鲜艳亮丽的选择颜色得以满足时尚化及快速的市场要求



聚丙烯(丙纶)纤维的主要应用领域

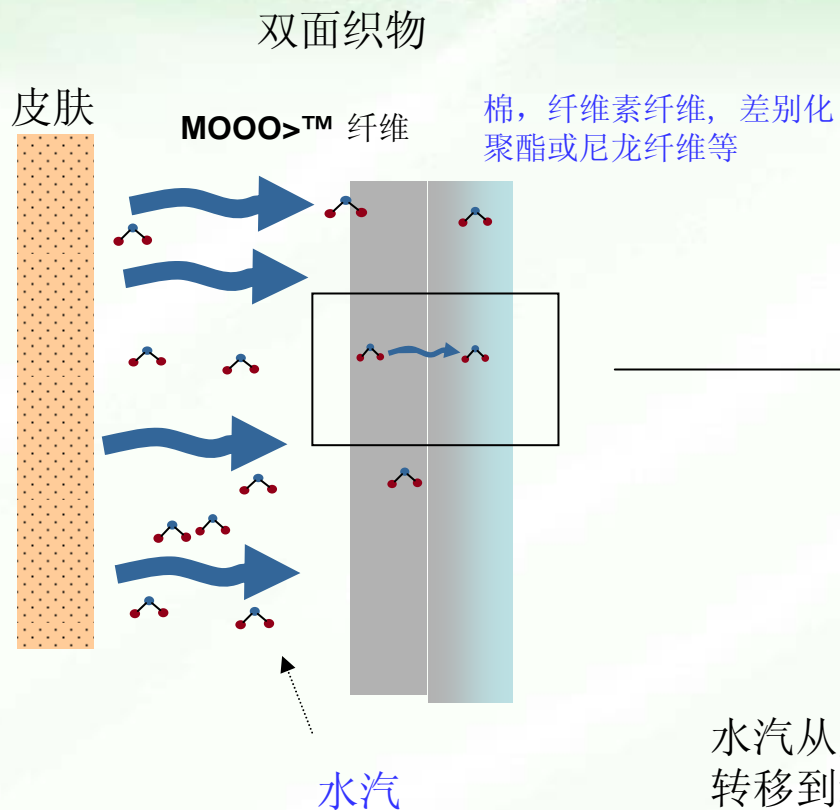


- ★ **服装：**专业运动服和休闲运动服、泳装袜子、保暖内衣、衬里织物
- ★ **汽车：**内装饰面料或面板，封装货架，座椅架等
- ★ **家具：**医疗用品、室内和室外的地毯，地毯基背、装饰和墙壁装饰、家具及床上用品织物
- ★ **工业：**地毯、一次性或非一次性的非织造布、渔网、绳索；过滤织物、行李箱袋和土工布等

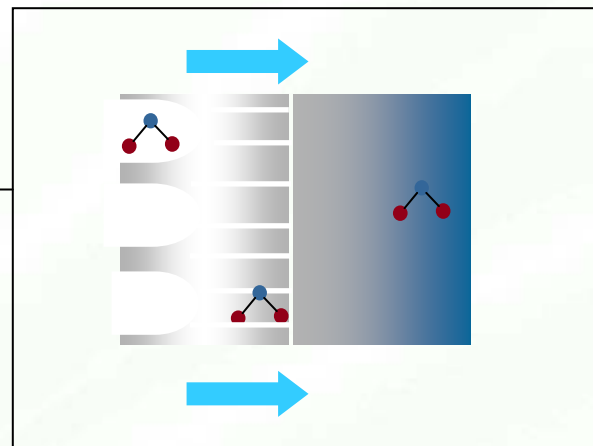
MOOO>™应用举例

— 双面织物：推/拉机理

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要点：丙纶纤维不吸水但可以转移水汽！



水汽从贴近皮肤的织物里层转移到织物外层，皮肤保持干爽和舒适。



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MOOO>™ 品牌

- 业务模式

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MOOO>™ 品牌推广



拉动式市场效应

Program	BASF Certified Yarn Manufacturer	BASF Alliance Partner Mill			
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MOOO>™ 纤维

全球认证纺丝工厂

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巴斯夫的一个全新品牌

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 **Coo7**™

品牌含义



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- ✦ 来源于英文 “MOVE - 移动 ”
- ✦ “oOo” 代表
 - ✦ 第一个 “o” = 体验轻柔
 - ✦ 第二个 “O” = 身心轻快
 - ✦ 第三个 “O” = 心灵轻松
- ✦ “>” 代表动感和意味着不断向前迈进

品牌的价值

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超级轻盈

- ★ MOOO>TM的独特之处在于它的超轻盈, 它的比重只有 $0.9\text{g}/\text{cm}^3$



品牌的价值

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超级轻盈

- ✦ “轻质”指的不单是对象的重量，而是伸延至心态的上的自由自在的感觉
- ✦ 为布厂和品牌商提供无限的机遇和提高生产效率，满足快速的市场需求



为布厂带来的益处



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- ✦ 减低库存风险管理
- ✦ 提高生产率
- ✦ 生产灵活性更高，交付周期更短
- ✦ 巴斯夫全球网络提供技术支持
- ✦ 视为潮流引导者，参与一个囊括整个供应链的新纤维项目

为品牌商带来的益处

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- ✦ 对市场作出快速响应
- ✦ 增加产品价值
- ✦ 引领潮流

- ✦ 减低库存风险管理
- ✦ 可靠的支持
- ✦ 品牌领导力

品牌推广宣传材料



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Being Light for Performance

MOODY™ dyed polypropylene is BASF's novel and distinct new coloration process for polypropylene in the textile and apparel industry. The BASF Certified Yarn Manufacturer program is a new collaborative partnership with 14 Chinese textile mills to ensure the supply of quality dyed polypropylene fibers, to drive light-emitted security chemicals, and to support fiber and fabric innovation in the market. The implementation of the BASF Certified Yarn Manufacturer program, a key resulting value chain management initiative, will benefit all levels of the apparel value chain and ultimately consumers.

Contact To Closer today for further MOODY™ dyed polypropylene information.

Contact person: Mr. Steven Chen Telephone: +86 21 2562 8136
Mobile: +86 150 021 549 979 Email: steven.chen@basf2007.com.cn

仪化经纬 YCFC JINGWEI
仪化经纬纤维有限公司
YCFC JINGWEI FIBRE COMPANY LIMITED

BASF
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Being Light for Freedom

Move to the sensation of freedom

MOODY™ fiber – the lightest among all fibers

Only with MOODY™ fiber you can enjoy comfortable and durable sport clothing free of stress and strain.

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...for performance
MOODY™ fiber is the lightest among all fibers and offers great conductivity.
• High absorbency • High permeability • Good elasticity • Good durability

...for freshness
MOODY™ fiber has the moisture wicking feature and offers a deodorizing effect.
• Natural pH control • Anticorrosion • Antistatic effect • No shrinkage

...for freedom
MOODY™ fiber has excellent elasticity and offers high elongation after stretching.
• Soft touch • Good drape • Good recovery • No shrinkage

...for comfort
MOODY™ fiber has excellent breathability and offers a cooling effect.
• Good breathability • Good moisture wicking • Good elasticity • Good durability

陈列室广告陈列

联合品牌广告

Being Light for Freshness

Move to the sensation of freshness

MOODY™ fiber – the lightest among all fibers

The unique property of MOODY™ fiber prevents bacterial growth with its anti-odor effect. Few odors, feel dry and feel fresh.

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品牌推广宣传材料

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Performance Chemicals

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MOOO>™

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Being
Light



Body deserves. Mind desires. Soul delighted.

MOOO>™

MOOO>™ Fiber – The Fiber Innovation by BASF for Dyeable Polypropylene

Body deserves, Mind desires. Soul delighted.
Fiber evolution by BASF

MOOO>™ – the fiber evolution by BASF. MOOO>™ fiber is an attitude and a lifestyle icon designed to fulfil the desires of consumers in the 21st century and beyond.

Let the body, mind and soul be elevated to a new level of harmony!



Body deserves. Mind desires. Soul delighted.



- ▶ MOOO>™
- ▶ About the brand
- ▶ Product Benefits
- ▶ Technology
- ▶ Market Value
- ▶ Contact

www.moov.basf.com

品牌推广宣传材料

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MOOOV™ fiber symbolizes a state of "Being" - being moved, being interacted and being complete! Let the body, mind and soul elevate to a new level of harmony!

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www.moov.basf.com

Body deserves. Mind desires. Soul delighted.

Fiber Evolution by BASF

MOOOV™ fiber features the technology of "Being light"

Super light (0.9g/cm²) leads to super comfortable feeling, tenderness to skin and freshness without compromising its multi-functional performance.

Like the laser, light yet powerful; like the wind, soft yet energetic. A fiber evolution for the 21st century clothing.

Freedom

- ▶ Gentle wash cycle
- ▶ No ironing
- ▶ Wash & wear
- ▶ Less staining

Performance

- ▶ Best insulation
- ▶ Moisture transportation
- ▶ Durability
- ▶ Color brilliance

Comfort

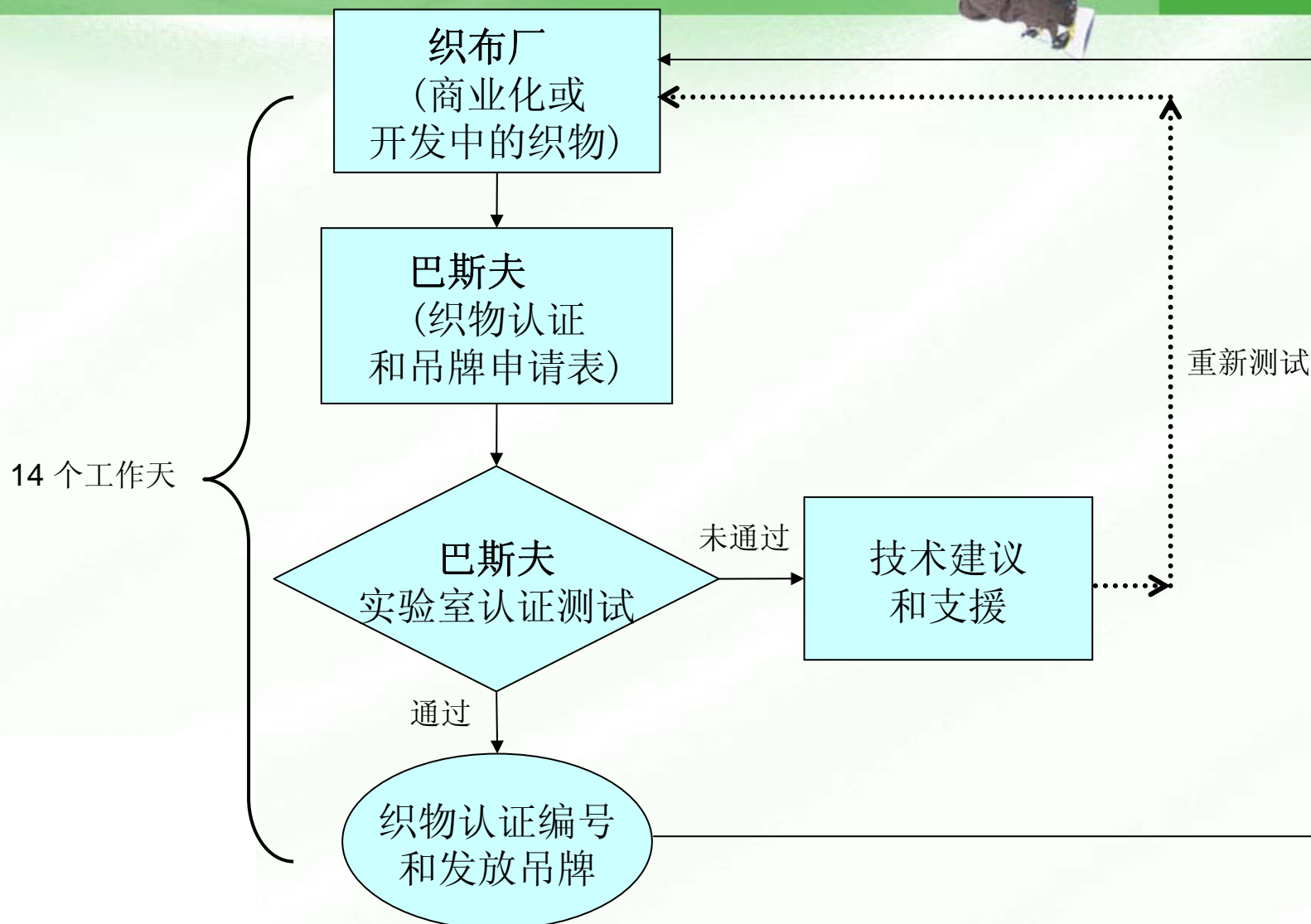
- ▶ Dry skin feel
- ▶ Breathability
- ▶ Smooth surface
- ▶ Soft hand feel

Freshness

- ▶ Bacterial growth control
- ▶ Anti-odor
- ▶ Clean & fresh

- ★ 吊牌设计配合品牌动感和意味着不断向前迈进
- ★ 帮助在零售时突出产品的个性

织物认证和吊牌申请程序



织物认证和吊牌申请表



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- ★ 填写《MOOOO>TM 织物认证和吊牌申请表
- ★ 提交2 码 MOOOO>TM 织物样品给巴斯夫测试认证
- ★ 通过测试织物将获得巴斯夫织物认证编号
- ★ 织物获得认证后可发放MOOOO>TM 吊牌

MOOOO>TM Fabric Certification and Hangtag Application Form

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1. APPLICATION DETAILS

Company name:	
Address:	
Contact Person/Details : (Name/Phone/Fax/E-mail)	
Address (Hangtag to be Sent) :	
Included Attention	
Date - IN	
Date Received by BASF	

2. YARN INFORMATION

BASF MOOOO- TM No. :	
Yarn Supplier:	

3. FABRIC INFORMATION:

<input type="checkbox"/> Knitted	<input type="checkbox"/> Woven
Wales/inch(wpi):	End/inch:
Course/inch(cpi):	Pick/inch:
Gauge (G):	
Batch No./PO No./PD No.:	
Fabric Quantity: _____ lb	Fabric Quantity: _____ m
Fabric Content: _____ %	
Fabric Weight: _____ g/m ²	

4. MARKETING INFORMATION:

Fabric Knitter/Weaver	
Fabric Dyer/Finisher	
Garment End-Use	
Brand	
End-market Country	

5. LABORATORY RESULT:

<input type="checkbox"/> Pass	<input type="checkbox"/> Borderline Pass	<input type="checkbox"/> Failure
Comment/Suggestion:		
Date-OUT:		

Company Chop Signature: _____

1 of 1



Basf Chemicals Ltd. 2010-01-01

Society of Dyers & Colourists

2008 色彩创新大奖



Dyer

Dyes & Chemicals News

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Avocet
Dye & Chemical Company Ltd
PERFORMANCE DYES & CHEMICALS

Disperse Dyes for Sportswear

DyStar is launching four new disperse dyes, aimed at meeting the performance and ecology specifications of leading sportswear brands and retailers.

It says these Dianix products broaden its leading position in effects for this demanding industry segment, particularly addressing colourfastness, ecology and productivity in the dyehouse.

Dianix Navy XF-AR and Dianix Black XF-AR are two new molecular developments that have good wet fastness and excellent stability in the dye bath. Additionally, for ternary combinations, Dianix

Golden Yellow SF and Dianix Blue SF are being introduced. DyStar says the introduction of these two new products complements its established, market-leading Dianix SF red dyes, to enable the highest level of fastness to be achieved also in deep ternary shades.

Steve Barron, head of DyStar's colours for synthetics business said: "These new colours will not only meet the fastness requirements of the major brands but will also improve the productivity of their suppliers. Furthermore, considering recent changes to some Restricted Substance Lists, these products will offer a solution and thereby help brands maintain their integrity and differentiate their offer."

Award for Dyeable Polypropylene

BASF is celebrating success in the Colour Innovation Award 2008, presented by the Society of Dyers and Colourists (SDC). Its winning product was MOOOO[®] dyeable polypropylene fibre technology.

BASF says its invention demonstrates a novel and distinct new coloration process for polypropylene in the textile and apparel industry, which has solved the key problem of dyeing polypropylene in an efficient and flexible way. The MOOOO[®] fibre incorporates innovative ImpPulse technology, which allows fabrics from colourless MOOOO[®] fibre to be dyed, which the company says is unique for polypropylene. BASF says dyeing in aqueous media in a standard industry process allows an easy coloration with disperse dyes in a flexible and creative way. The invention also provides brilliant colour shades to meet the fast-moving market trends.

● SDC Day of Celebration – page 44

Textile Toxins Alarm

A US academic has expressed concerns about the level of toxins that may be present in commonly available textiles.

Dr David Brookstein, dean of the School of Engineering and Textile and director of Philadelphia University's Institute for Textile and Apparel Product Safety (ITAPS), said that in testing so far, ITAPS researchers had found elevated levels of formaldehyde in children's clothing and brominated resins in car seats. Both of these chemicals were known to have health risks.

His comments follow the revelation that Harvard School of Public Health Study found a link between formaldehyde exposure and a greater risk of the debilitating disease amyotrophic lateral sclerosis (ALS or Lou Gehrig's disease), and news that several artificial-turf sports fields in New Jersey had been closed due to concerns about lead compounds in the turf fibres.

ITAPS was established last autumn, in the wake of growing concerns about the safety of a wide range of consumer items, including lead-tainted toys. It is conducting research to determine whether potentially toxic chemicals are present in imported clothing and other textile products, and the extent of their use, and intends to help establish protocols for testing and evaluating imported items.

Dr Brookstein is supporting legislative efforts by US Senator Bob Casey, which would require the Consumer Product Safety Commission to study the use of formaldehyde in apparel. Currently, there are few US regulatory standards for imported clothing or textiles and Dr Brookstein notes that many European countries, as well as Japan and Australia, have much stricter restrictions on the use of chemicals in textiles and apparel.

New Colours for Synthetic Fibre

Among recent introductions from Americhem, which manufactures fibre dyes and additives, are new yellow, black and red dispersions, along with two UV stabilisers. The company says each offers new alternatives to traditional products with enhanced performance characteristics.

Americhem's new yellow dispersions for polypropylene and nylon are said to offer clients a non-SARA-reportable (Superfund Amendments and Reauthorization) alternative. This product can be used as a replacement for heavy-metal colorants and is claimed to work well with indoor and outdoor fibre applications because of its excellent colour-fastness.

"In addition to its environ-



Dr Pia Baum (left) receives the innovation award on behalf of BASF



Frank Moore receives his honorary fellowship from Susan Williams



Susan Williams (left) with Ann Priest and Keith Millington

Barbary. A charismatic and entertaining speaker, and great friend of the Society, Craig lost no time in emphasising to his 200-strong audience the role and significance of colour in everyday life.

50-Year Awards

Susan Williams then presented 50-year awards to James Keaton and David Blackburn. This was followed by a presentation to Susan herself on behalf of the American Association of Textile Chemists and Colorists, by AATCC

president, Martin Bilde.

At this point, the master of ceremonies for the evening, Chris Sargeant, SDC vice-president (fashion and design), introduced the awards ceremony sponsored by VeriVide.

SDC Colour Innovation Award 2008

Before inviting the president to announce the winner of the Colour Innovation Award, Chris explained that the level of interest in this award – the fifth biennial competition of its type run by the SDC – had been unprecedented, resulting in three finalists from Germany, the UK and Switzerland. In total, entries had been received from 17 countries.

The finalists were BASF (Germany), for the MOOOO[®] brand of dyeable polypropylene fibres; James Robinson Ltd (UK), for neutral grey-colouring photochromic dyes; and Huntsman Textile Effects (Switzerland), for Novacron NC reactive dyes.

The winner was BASF, who received a cash prize of £1,500 to be spent on education and training, the SDC Colour Innovation Award trophy and membership of the SDC, company patron supporter scheme for two years. Pia Baum, BASF's European innovation manager, accepted the prize on behalf of the company.

SDC Colour Design Award 2008

The evening culminated in the announcement of the winner of the first ever undergraduate colour and design competition to involve entries from every SDC region, both UK and overseas. All 13 finalists were present for what proved to be an exciting and fitting climax to the Day of Celebration.

Before inviting Malcolm Campbell, chair of the judging panel, to announce the winner, Chris Sargeant commented: "Colour is what brings our finalists here tonight and, for the first time ever, brings together under one roof representatives from every part of the Society's global colour community."

"This competition, along with other Society initiatives such as Days of Colour, encourages colour excellence, creativity and best practice, and helps provide that crucial bridge between the student learning process and the world of work."

Malcolm Campbell then announced that the winner of the SDC Colour Design Award

2008 was second-year student Danielle Lewis, from Colchester Institute, the London Region finalist. As the global winner, Danielle received a cash prize of £1,000, the Veronica Bell Award and software for her college, donated by Lectra.

The remaining 12 finalists, who received prizes donated by Pantone Asia and NCS Colour Centre, were: Neha Anjeja (India); R.P.E. Bandara (Sri Lanka); Chantelle Bekker (South Africa); Lindsey Bell (Northern Ireland); Casey Bianco (USA); Erin Grant (Australia); Lynsey Henderson (Scotland); Laura Reiki (North of England); Sara Sami (Pakistan); Emily Scholes (Midlands); Anna Wilkinson (West of England and South Wales); and Yiu Yiu-Fun (Natalie) from Hong Kong.

The evening concluded with a champagne raffle, courtesy of Adaptive Controls.



The student fashion show

More information:

Secretary: secretariat@sdck.org.uk
Membership: members@sdck.org.uk
Patron Scheme: patron@sdck.org.uk
Technical & Training: tech@sdck.org.uk
www.sdck.org.uk
SDC: www.sdck.org.uk
SDC Enterprise: www.sdckenterprise.co.uk
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Colour Design & Creativity: www.colour-designandcreativity.com
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- ✦ 能耗
- ✦ 零售倡导者
- ✦ 洗涤过程减少细菌
- ✦ MOOO>TM 解决方案
 - 洗涤过程中的节能
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- ✦ MOOO>TM 品牌
- ✦ MOOO>TM 染整工艺
- ✦ 提问



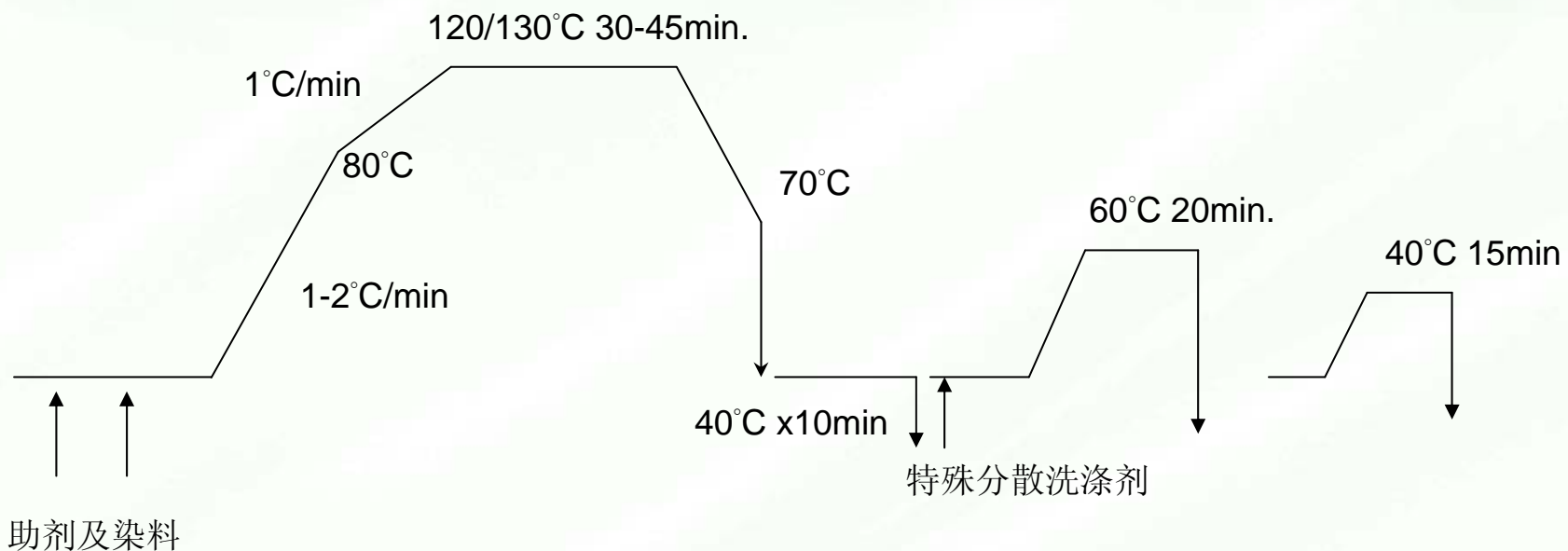
技术方面



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- ✦ 染整
- ✦ 染料的选择
- ✦ 总体牢度水平
 - 耐光性
 - 水洗牢度

浸染工艺



染整工艺



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关键点:

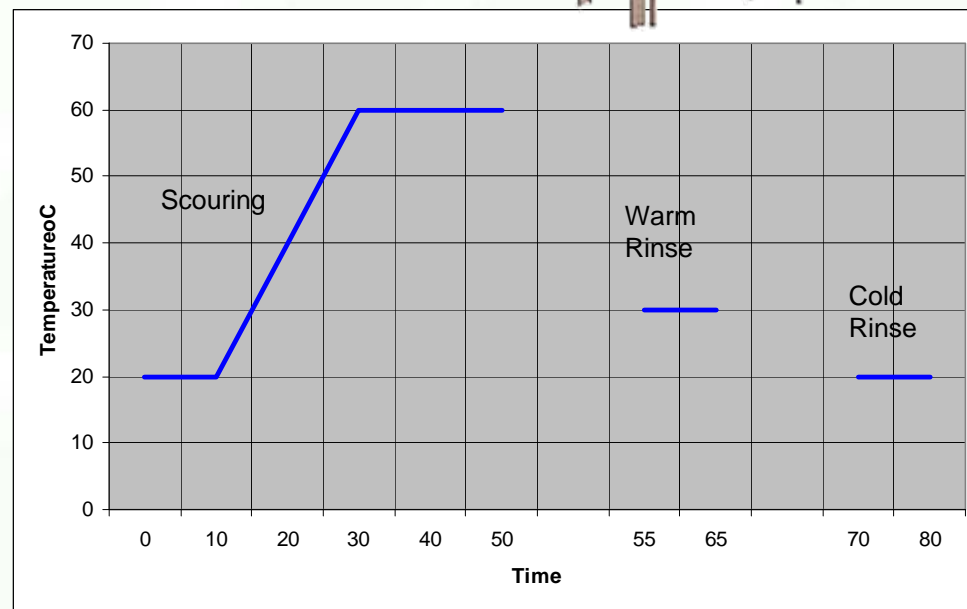
- ✦ 跟涤纶同样使用分散染料的染色方法
- ✦ 从室温或 40°C 加温至 80°C ，其设定为每分钟 1-2 度；而从 $80-120/130^{\circ}\text{C}$ ，设定于每分钟 1°C ，取决于机械和染料特性等
- ✦ 特殊后清洗方法来替代还原洗清（ $60^{\circ}\text{C}\times 15$ 分钟）；采用特别分散洗涤剂及强力洗涤剂，这可确保有更好的重现性和色牢度
- ✦ 如有必要，追色或是重染亦可行
- ✦ 对于每一个热处理过程，包括烘干，定型等，建议在 $110-120^{\circ}\text{C}$ 左右进行（注意设备的波动!）

MOOO>™ 浸染工艺

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预洗的程序:

- ✦ 浴比 = 10-15 : 1
- ✦ 1 g/l Kieralon F-MFB + 0.5-1.0g/l 純碱
- ✦ 洗涤温度: 40°C -60°C
- ✦ 洗涤时间: 10 – 20 分钟
- ✦ 冲洗: 1x 的温洗, 1x 冷洗

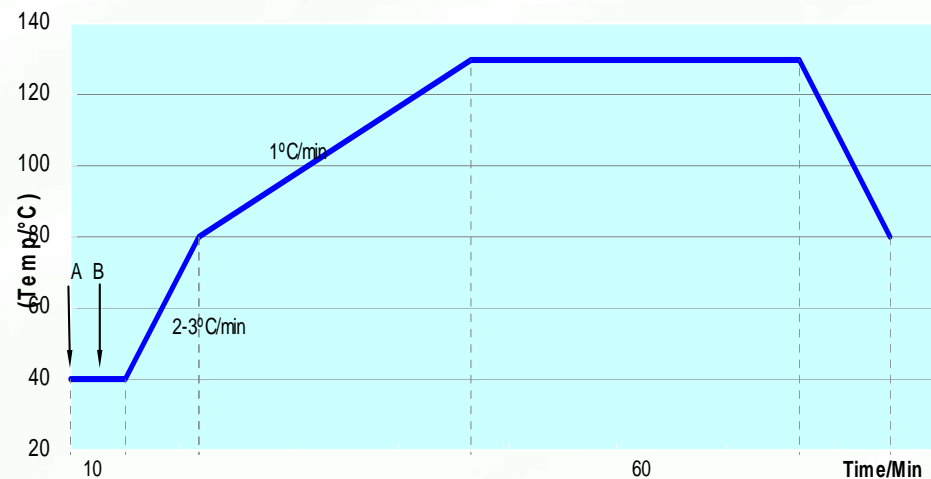


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染色程序:

- ✦ 设在 40°C- 50°C，加入印染助剂 (1.0 g/l Basojet PEL Conc. + 1.0 g/l Setamol LD Conc + 0.5-1.0 g/l Ludigol AR)
- ✦ 运行 5-10 分钟
- ✦ 加入染料 (采用巴斯夫推荐的染料名单)
- ✦ 调整 pH 值至 4.0 – 4.5 (醋酸或 Eulysin PC)
- ✦ 提升高温度至 80°C，1-2°C /分钟，然后以每 1°C /分钟升至 120/130°C
- ✦ 运行 30-60 分钟在 130°C，取决于深度
- ✦ 降温，然后排放
- ✦ 温水清洗暖



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还原洗清 (RC) 的程序:

- ✦ 设染浴于室温
- ✦ 用于浅中颜色(~ <3%) 加入:
 - 2.0克/升 Sokalan HP22 G
 - 1.0克/升 Kieralon F-MFB
- ✦ 用于中深颜色(~ ≥3%) 加入:
 - 4.0 克/升 保险粉
 - 1.8 克/升 烧碱
 - 1.0 克/升 Kieralon F-MFB
- ✦ 提高温度至60°C , 处理15 - 20分钟
- ✦ 排水, 冷水冲洗干净
- ✦ 烘干 (留意烘干温度!)

染料选择/供应商



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染料名称		供应商
Dianix Blue S-2G		DyStar
Dianix Deep Red SF		DyStar
Dianix Flavine XF		DyStar
Dianix Navy XF-AR		DyStar
Dianix Orange S-G200%		DyStar
Panacron Black AMB		Raon Ltd. (Korean)
Serilene Brilliant Orange RGL 200%		Yorkshire
Serilene Golden Yellow 2R-LS		Yorkshire
Serilene Scarlet 2B-LS 150%		Yorkshire
Serilene Yellow 7G-LS 200%		Yorkshire
Teratop Navy HL-N		Huntsman
Teratop Yellow HL-G 150%		Huntsman

染料选择



BASF
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- Dianix Yellow Brown XF
- Dianix Golden Yellow SF
- Dianix Red S-BEL
- Dianix Blue XF
- Dianix Blue S-BG
- Terasil Blue W-BLS
- Dianix Yellow Brown S-2R 150%
- Dianix Rubine S-2G 150%
- Dianix Blue S-2R
- Dianix Navy S-2G 200%
- Dianix Black S-R 200%
- Ultraphor HF Liquid
- Uvitex EBF 250%
- Uvitex ERN-F 250%

这组染料特别挑选，适用于MOOOOTM 纤维/涤纶交织织物！



常规供应品种 *



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The Chemical Company

旦	长纤	横切面		种类
50d	24	圆形	半消光	DTY
75d	36	圆形	半消光	DTY
150d	72	圆形	半消光	DTY

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