

Man-Made Fiber Year Book 2011

Published by
Chemical Fibers International



Leader		22	Use of PCR bottle flakes in polymer production/polymer condensation S. Conrad
1	Patterns of fiber demand 50 years on – by fiber type and across region Peter Driscoll	23	New PET bottle recycling spinning technology for polyester yarn industry S. Wei
		25	Fiber in-house recycling – experiences and challenges of industrial practice U.K. Thiele
Industry News			
4	Global polyester and polyamide expansion		
9	Synthetic industrial fiber markets		
10	Higher German fiber production	27	World fiber use grew 8 % in 2010 E. Hayes
11	Lenzing: fiber sales +31 %	28	Cotton's impact on other fibers D. Collier, N. Bywater
12	New marketing strategy for DiolenSafe	29	Global glass fiber capacities for composites
12	DSM Dyneema: new sales partners	30	Hybrid polyester yarn for automotive fabrics with improved elastic recovery D. Özdemir
13	40th anniversary of Unifi	31	Teijin Aramid: Twaron Black
14	75 years viscose fibers in Kelheim	32	The carbon fiber market – an overview over the present situation M. Warnecke et al.
14	Dralon anniversary	34	Nano-modified PA 6 yarns for technical applications P. Kravaev et al.
15	Takeover of Trevira	37	European market trends for polyolefins
15	TFG takeover by investors	38	Nanofiber-covered yarns O. Jirsak, F. Sanetnik, J. Chaloupek
15	DSM Dyneema: PE fiber acquisition in China	40	Cupro yarns for textiles (Asahi Kasei Fibers)
16	Global carbon fiber investments	41	Temperature regulating textile fibers containing large amounts of phase change material B. Hagström
		43	Flame-retardant PyroTex fibers for protection and safety textiles R. Jarausch
		45	Natural volcanic rock fibers D. Pico, C. Wilms, G. Seide, T. Gries
		46	New HTS carbon fiber type (Toho Tenax)
		47	Spandex (elastane yarn) – expanding prospects D. Hart
		49	New yarn technology for artificial turf (Colbond)
		49	New bicofiber for artificial turf (EMPA/Tisca Tiara)
Raw Materials			
17	BASF: Ecoflex plant in operation		
17	Indorama: PTA takeover		
17	New PET project in Turkey		
17	New DP plant in Sweden		
18	New AN plant in Saudi Arabia		
18	PA 66 project in China		
19	Direct recycling of PET fiber waste with MRS extruder (Gneuß)		
20	PET MTR resin – a success story E. van Endert		
21	Gneuß: order for MRS extruder		
21	Kreyenborg: new Korean order		

-
- 50 **Structure and functionality of steam-jet fiber Felibendy** S. Kiyooka
 - 51 **Acrylic fiber for flock (Dolan)**
-

Fiber Production

- 52 **Project list of new polymer and chemical fiber plants 2011 (Engineering companies)**
 - 58 **Polymer – made by Oerlikon Barmag**
J. Langfeld, R. Schneider
 - 59 **Spin finish – only processing aid or high performance lubricant with different functionalities?** J. Weigel
 - 63 **Nanofiber spinning installations**
A. Desch, F. Reiter
 - 64 **Filament breaches during air-gap spinning**
B. Wirth et al.
-

Texturing

- 66 **Textured yarn production costs 2010 (ITMF)**
 - 67 **Higher texturing investments**
 - 68 **The main Asian and Middle East draw-textured yarn markets**
A. Steingass, J. Lakraa
 - 73 **Online tension sensor system for false-twist draw-texturing machines** H. Keser
 - 74 **Wicking behavior of air-jet textured yarns**
M.Y. Gudiyawar, C.D. Kane, S. Saudagar
 - 76 **Cost-efficient automation solution for BCF carpet yarn plants with modular winder units** D. Horcher, H. Schumacher
-

Nonwovens

- 78 **New structures for resorbable polymers**
R.W. Slack
- 80 **Biopolymers for nonwovens – environmentally beneficial, technically advantageous, commercially feasible** E. Tighe
- 82 **Cupro nonwovens Bemliese for export markets (Asahi Kasei Fibers)**
- 83 **Spunlaid cellulose nonwovens** L. Gerking
- 85 **Elastomeric durable nonwovens through the use of novel bicomponent fiber cross-sections** N. Anantharamaiah, B. Pourdeyhimi
- 88 **Advertisers index, Company index, Imprint**