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THE GALLERY

DESIGN MATERIALS COLLECTION

Explore Value-Adding Plastics for Cosmetics Packaging

DuPont Performance Polymers invites you to explore value-adding plastics for cosmetics packaging that can deliver performance AND beautiful aesthetics while meeting European cosmetics and food-contact regulations.



New to the portfolio are renewably sourced DuPont™ Sorona® EP PTT and DuPont™ Crastin® PBT, offered as alternatives to current cosmetics packaging solutions in contact with formulation.

DuPont™ Crastin® PBT et DuPont™ Sorona® PTT

POLYMER OPTIONS FOR PACKAGING IN CONTACT WITH COSMETICS FORMULATIONS

For packaging applications in contact with the cosmetics formulations, DuPont proposes for consideration several polyester resins within the Crastin® PBT and bio-sourced Sorona® EP PTT families.

• DuPont™ Crastin® PBT and Sorona® EP PTT food contact (FG) grades listed in the attached table can provide the following benefits and characteristics:

 Compliant with the EU cosmetic regulation (EU nr. 1223/2009) as well as food contact regulations (US: FDA and EU10/2011)

 Significant history of applications by OEM's in various market segments, often requiring excellent performance in demanding mechanical and chemical environments.

 Excellent aesthetics.

 Tested and approved by our customers for mascaras and pump applications in the cosmetics industry.

 Global availability

 DuPont technical support to facilitate use for new designs and if needed, conversion from resins currently being used.

• In addition, DuPont™ Sorona® EP PTT is a bio-sourced resin that contains 20-37 weight percent bio-sourced content.

Depending on your needs, DuPont may be able to tailor resins for your specific needs by working with your development teams. Table 1 contains a summary of specific grade physical properties and regulatory approvals.

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PRODUCT PROPERTIES OF DUPONT PERFORMANCE POLYMERS RESINS :

POLYESTER RANGE				
Product		Crastin® FGS600F40	Crastin® FGS600F10	Sorona® FG3301
Resin family		PBT	PBT	PTT
Description		unreinforced, lubricated, low viscosity	unreinforced, lubricated, medium viscosity	unreinforced
Renewably Sourced		No	No	Yes
PROPERTIES				
Density	g/cm ³	1.31	1.3	1.32
Stress at yield	MPa	58	57	60
Modulus	MPa	2600	2600	2400
Notched Charpy Impact (23°C)	kJ/m ²	4	5	4
Molding Shrinkage Normal	%	1.8	1.6	1.4
Molding Shrinkage parallel	%	1.95	1.7	1.3
Water absorption (50%RH)	%	0.2	0.2	0.2
Water absorption saturation immersed	%	0.4	0.5	0.4
PROCESSING				
Melt temperature range	°C	240-260	240-260	250-270
Mold temperature range	°C	30-130	30-130	80-110
REGULATIONS				
Food compliancy (FDA et European food contact certified GMP)		Yes	Yes	Yes
Regulatory support on cosmetic regulations such as EU nr. 1223/2009 and REACH nr. 1907/2006		Yes	Yes	Yes

For any further information and sampling, please feel free to contact:
Pour toute information complémentaire et demande d'échantillonnage, merci de bien vouloir contacter:

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