

Solvay TECHNYLÂ® PSB 286 PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Description: Unreinforced polyamide PA6, with very good lubrication, standard for fast injection cycles, for injection molding. Available in: North America
 Product Applications: This grade has high fluidity and good mould release. It is particularly suitable for the production of technical moldings with fast injection cycles. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-PSB-286-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183/A
Water Absorption	1.3 %	1.3 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527 Type 1A
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527 type 1 A
Elongation at Break	65 %	65 %	ISO 527 Type 1A
Tensile Modulus	3.00 GPa	435 ksi	ISO 527 Type 1A
Flexural Strength	115 MPa	16700 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ISO 11359
	@Temperature 23.0 - 85.0 Â°C	@Temperature 73.4 - 185 Â°F	
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	80.0 Â°C Metric	176 Â°F English	ISO 75/AF Comments
Flammability, UL94	V-2	V-2	1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	1210
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-2	V-2	1210
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	700 Â°C	1290 Â°F	ISO 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	700 Â°C	1290 Â°F	ISO 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	750 Â°C	1380 Â°F	ISO 60695-2-12
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	225 - 230 Â°C	437 - 446 Â°F	
Front Barrel Temperature	230 - 240 Â°C	446 - 464 Â°F	
Mold Temperature	20.0 - 50.0 Â°C	68.0 - 122 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	230-235Â°C	

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