

Solvay TECHNYL® C 230 PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Description: Unreinforced polyamide PA6, with improved impact resistance, for injection molding. Available in: Europe

Product Applications: This grade has improved impact strength and higher flexibility. It is suitable specially to make technical parts having small or medium size, such as: plugs, seals. This product is available in colors on request. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-C-230-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ISO 1183/A
Water Absorption	1.2 %	1.2 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0142 cm/cm	0.0142 in/in	
Linear Mold Shrinkage, Transverse	0.0132 cm/cm	0.0132 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.0 MPa	10900 psi	ISO 527 type 1 A
Tensile Modulus	2.60 GPa	377 ksi	ISO 527 Type 1A
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	ISO 11359
	@Temperature 23.0 - 85.0 Å°C	@Temperature 73.4 - 185 Å°F	
Melting Point	222 Å°C	432 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Å°C	167 Å°F	ISO 75/Af

Thermal Properties	^{HB} Metric	^{HB} English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
Dissipation Factor	0.20	0.20	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 225 Â°C	428 - 437 Â°F	
Front Barrel Temperature	225 - 230 Â°C	437 - 446 Â°F	
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	225-230Â°C	

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