

Solvay TECHNYL® C 216 PA6, DRY

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

Material Notes:

Description: Unreinforced polyamide PA6, standard nucleation for fast cycling, for injection molding. Available in: Asia Pacific Product

Applications: This grade has a high fluidity and good mould release. It is specially suitable for the production of technical moldings with fast injection cycles. 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-216-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 % @Temperature 23.0 °C, Time 86400 sec	1.3 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527 Type 1A
Elongation at Break	100 %	100 %	ISO 527 Type 1A
Tensile Modulus	2.95 GPa	428 ksi	ISO 527 Type 1A
Flexural Strength	115 MPa	16700 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C @Temperature 23.0 - 85.0 Â°C	38.9 Âµin/in-Â°F @Temperature 73.4 - 185 Â°F	ISO 11359
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	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210
Oxygen Index	26 %	26 %	ISO 4589

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	575 V	575 V	Solution B; IEC 60112
	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 230 Â°C	428 - 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	225-235Â°C	

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