

Solvay TECHNYL® C 246 M PA6, DRY

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

Material Notes:

Description: Unreinforced polyamide 6, with high impact resistance, for injection molding. Grade formerly known as PSB196. Available in:

Europe Product Applications: It is particularly adapted to the molding of sports and leisure goods, such as parts for in-line skates. This product is available in natural, black and 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-246-M-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527 type 1 A
Elongation at Break	50 %	50 %	ISO 527 Type 1A
Tensile Modulus	2.00 GPa	290 ksi	ISO 527 Type 1A
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched (ISO)	55.0 kJ/m ²	26.2 ft-lb/in ²	ISO 180/1eA
Charpy Impact, Notched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	222 Â°C	432 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	1210

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
Dissipation Factor	0.020	0.020	IEC 60250

Processing Properties	Metric	English	Comments
Feed Temperature	220 - 225 Â°C	428 - 437 Â°F	
Front Barrel Temperature	230 - 235 Â°C	446 - 455 Â°F	
Mold Temperature	50.0 Â°C	122 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

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

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