

Solvay TECHNYLÂ® C 402 M PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Extruded

Material Notes:

Description: Unreinforced polyamide PA6, high viscosity, containing monomer, for extrusion. Available in: Europe and North America Product

Applications: It is suitable for applications requiring high flexibility and high impact strength. This product is available in natural. 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-402-M-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/inÂ³	ISO 1183/A
Water Absorption	1.9 %	1.9 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527 type 1 A
Tensile Modulus	1.20 GPa	174 ksi	ISO 527 Type 1A
Flexural Strength	50.0 MPa	7250 psi	ISO 178
Flexural Modulus	1.00 GPa	145 ksi	ISO 178
Izod Impact, Notched (ISO)	14.5 kJ/mÂ²	6.90 ft-lb/inÂ²	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	1.80 J/cmÂ²	8.57 ft-lb/inÂ²	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)	65.0 Â°C	149 Â°F	ISO 75/Af
Flammability, UL94	HB	HB	1210
	@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	3.6	3.6	IEC 60250
Dissipation Factor	0.020	0.020	IEC 60250

Processing Properties	Metric	English	Comments
Feed Temperature	225 - 230 Â°C	437 - 446 Â°F	
Front Barrel Temperature	235 - 245 Â°C	455 - 473 Â°F	
Mold Temperature	40.0 Â°C	104 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	230-240Â°C	

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