

Solvay TECHNYL® 1011R PA6, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Description: Polyamide 6, Unfilled, lubricated, for injection molding. Available in: Asia Pacific Product Applications: TECHNYL® 1011R is used in all sectors of industry, offering an excellent flow ability. This grade is used for: Fastener, Clip, Gear, Bobbin, Hand mixer cover. This product is available in NAT color. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-TECHNYL-1011R-PA6-DRY.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
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	0.011 - 0.015 cm/cm	0.011 - 0.015 in/in	
Linear Mold Shrinkage, Transverse	0.012 - 0.015 cm/cm	0.012 - 0.015 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D786
Tensile Strength, Yield	80.0 MPa	11600 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	2.95 GPa	428 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D265

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ASTM D648
Flammability, UL94	HB	HB	ISO 1210

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+14 ohm-cm Metric	1.00e+14 ohm-cm English	IEC 60093 Comments
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	3.40 kV/mm	86.4 kV/in	IEC 60243
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	230 - 235 °C	446 - 455 °F	
Front Barrel Temperature	245 - 250 °C	473 - 482 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	235-345°C	

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