

Solvay TECHNYL® 1021GF6 PA6, 30% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Description: Polyamide 6, 30% glass fiber reinforced, for injection molding. Available in: Asia Pacific Product Applications: TECHNYL® 1021GF6 is used in all sectors of industry, offering an excellent combination between the mechanical properties. This grade is used for It is used in the automotive industry and electrical sectors. Door motor cover. This product is available in Natural, black, gray and 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-1021GF6-PA6-30-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	0.95 % @Temperature 23.0 °C, Time 86400 sec	0.95 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.000035 cm/cm	0.000035 in/in	
Linear Mold Shrinkage, Transverse	0.0065 cm/cm	0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D786
Tensile Strength, Yield	175 MPa	25400 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	260 MPa	37700 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D265

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ASTM D648
Flammability, UL94	HB	HB	ISO 1210
Glow Wire Test	650 °C @Thickness 1.60 mm	1200 °F @Thickness 0.0630 in	IEC-60695-2-12

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
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	550 V	550 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	80.0 - 100 °C	176 - 212 °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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