

Solvay TECHNYLÂ® 2412GHF8 PA66, 40% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 40% Glass Fiber Filled

Material Notes:

Description: Polyamid 66, reinforced with 40% of glass fiber, heat stabilized for injection molding Available in: Asia Pacific Product

Applications: TECHNYLÂ® 2412GHF8 is used in all sectors of industry. Offering excellent combination between thermal stability and mechanical properties. This grade is widely used for: Automotive parts-Pedal, oil filter hosing, cultch master cylinder. This product is available in black color 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-2412GHF8-PA66-40-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/inÂ³	ASTM D792
Water Absorption	0.70 % @Temperature 23.0 Â°C, Time 86400 sec	0.70 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	205 MPa	29700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	305 MPa	44200 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.40 J/cm	2.62 ft-lb/in	ASTM D265

Thermal Properties	Metric	English	Comments
CTE, linear	3.60 Âµm/m-Â°C @Temperature 23.0 - 85.0 Â°C	2.00 Âµin/in-Â°F @Temperature 73.4 - 185 Â°F	ISO 11359
Melting Point	262 Â°C	504 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	255 Â°C	491 Â°F	ASTM D648
Flammability, UL94	HB @Thickness 0.800 -	HB @Thickness 0.0315 -	

Thermal Properties	3.20 mm Metric	0.126 in English	Comments
Oxygen Index	23 %	23 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	6.00e+13 ohm	6.00e+13 ohm	IEC 60093
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	450 V	450 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	265 - 270 Â°C	509 - 518 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	270-280Â°C	

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