

Solvay TECHNYLÂ® 2412GHF6 PA66, 33% glass fiber, DRY

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

Material Notes:

Description: Polyamid 66, reinforced with 33% of glass fiber, heat stabilized for injection molding Available in: Asia Pacific Product

Applications: TECHNYLÂ® 2412GHF6 is used in all sectors of industry, offering excellent combination between thermal stability and mechanical properties. This grade is widely used for: Hot water distributor pipe, Motor holder for boiler. This product is available in natural and 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-2412GHF6-PA66-33-glass-fiber-DRY.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/inÂ³	ASTM D792
Water Absorption	0.80 % @Temperature 23.0 Â°C, Time 86400 sec	0.80 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	200 MPa	29000 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	300 MPa	43500 psi	ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D265

Thermal Properties	Metric	English	Comments
CTE, linear	4.50 Âµm/m-Â°C @Temperature 23.0 - 85.0 Â°C	2.50 Âµin/in-Â°F @Temperature 73.4 - 185 Â°F	ASTM D696
Melting Point	262 Â°C	504 Â°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	252 Â°C	486 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
Glow Wire Test	700 Å°C @Thickness 1.60 mm	1290 Å°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	6.00e+13 ohm	6.00e+13 ohm	IEC 60093
Dielectric Strength	34.0 kV/mm	864 kV/in	IEC 60243
Dissipation Factor	0.010	0.010	IEC 60250
Comparative Tracking Index	350 V	350 V	Solution B; IEC 60112
	450 V	450 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	270 - 275 Å°C	518 - 527 Å°F	
Front Barrel Temperature	285 - 290 Å°C	545 - 554 Å°F	
Mold Temperature	80.0 - 100 Å°C	176 - 212 Å°F	
Drying Temperature	80.0 - 100 Å°C	176 - 212 Å°F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	275-285Å°C	

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