

Solvay Specialty Polymers Omnix® FC-9050 Polyamide, High Performance (HPPA), 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Omnix® FC-9050 is a 50% glass-fiber reinforced high-performance polyamide. It is hot-water moldable and intended for use in components requiring superior mechanical properties even after moisture absorption. Omnix® FC-9050 is characterized by high stiffness and strength, very good impact properties, good dimensional stability and high flow properties. This material is an economical alternative for food service applications using die-cast alloys. Features: Fast Molding Cycle; Good Dimensional Stability; Good Impact Resistance; Good Surface Finish; High Flow; High Stiffness; High Strength; Hot Water Moldability; Paintable Uses: Appliances; Food Service Applications Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Omnix-FC-9050-Polyamide-High-Performance-HPPA-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Filler Content	50 %	50 %	Glass Fiber
Water Absorption	0.27 % @Time 86400 sec	0.27 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	235 MPa	34100 psi	ISO 527-2
Elongation at Break	2.1 %	2.1 %	ISO 527-2
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527-2
Flexural Strength	340 MPa	49300 psi	ISO 178
Flexural Modulus	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	Type 1, Notch A; ISO 180
Izod Impact, Unnotched (ISO)	75.0 kJ/m ²	35.7 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	260 Â°C	500 Â°F	ISO 11357-3

Thermal Properties Deflection Temperature at 1.8 MPa (100 psi)	Metric 248 Â°C	English 478 Â°F	Unannealed; ISO 75-2/A Comments
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 Â°C	482 Â°F	
Front Barrel Temperature	285 Â°C	545 Â°F	
Melt Temperature	275 - 290 Â°C	527 - 554 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	80.0 Â°C @Time 14400 - 43200 sec	176 Â°F @Time 4.00 - 12.0 hour	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	North America	
Color	Black; Natural	
Form	Pellets	
Part Marking Code	>PAMXD6/66-GF50<	ISO 11469
Processing Technique	Injection Molding; Water-Heated Mold Injection Molding	
RoHS Compliance	RoHS Compliant	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China