

Network Polymers Kepital® F20-25

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

Material Notes:

Description: Natural Acetal Copolymer, 25% Glass Reinforced Grade Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-Kepital-F20-25.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C at 60% RH; ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955
Melt Flow	9.0 g/10 min @Load 2.16 kg, Temperature 190 °C	9.0 g/10 min @Load 4.76 lb, Temperature 374 °F	Procedure A Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength at Break	142 MPa	20600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	206 MPa	29900 psi	ASTM D790
Flexural Modulus	8.6295 GPa	1251.6 ksi	ASTM D790
Shear Strength	74.5 MPa	10800 psi	ASTM D732
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256
Impact	33.2	33.2	ft-lb/in Tensile Impact, S type; ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear	19.8 - 30.1 µm/m-°C @Temperature 20.0 °C	11.0 - 16.7 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	165 °C	329 °F	10°C/min heating; DSC
Deflection Temperature at 0.46 MPa (66 psi)	164 °C	327 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Strength	23.0 kV/mm	584 kV/in	ASTM D149

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