

Network Polymers Kepital® TC30-20

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Mineral Filled

Material Notes:

Description: Natural Acetal Copolymer, 10% Talc Reinforced Grade Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-Kepital-TC30-20.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.21 %	0.21 %	23°C at 60% RH; ASTM D570
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	ASTM D955
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 190 °C	21 g/10 min @Load 4.76 lb, Temperature 374 °F	Procedure A Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ASTM D785
Tensile Strength at Break	61.8 MPa	8960 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Flexural Strength	98.064 MPa	14223 psi	ASTM D790
Flexural Modulus	3.8245 GPa	554.69 ksi	ASTM D790
Shear Strength	51.97 MPa	7538 psi	ASTM D732
Izod Impact, Notched	0.395 J/cm	0.740 ft-lb/in	ASTM D256
Impact	9.2	9.2	ft-lb/in Tensile Impact, S type; ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear	79.2 µm/m-°C @Temperature 20.0 °C	44.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	160 °C	320 °F	10°C/min heating; DSC
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °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

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