BASF Ultramid® KR 4355 G7 35% Glass Filled PA6/6T (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Glass Fiber Filled

Material Notes:

Description: 35% glass-fiber reinforced product for injection-molding; high toughness, strength and stiffness, low water absorption, high melting point (295°C [563°F]). The mechanical properties remain constant after moisture absorption up to a temperature of 60°C [140°F], for instance, for automotive valve housings.Information provided by BASF

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-KR-4355-G7-35-Glass-Filled-PA66T-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in³	ISO 1183
Water Absorption	4.3 - 5.3 %	4.3 - 5.3 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	0.80 - 1.2 %	0.80 - 1.2 %	23°C; 50% RH; ISO 62
Viscosity Measurement	130	130	ISO 307
Linear Mold Shrinkage	0.0033 cm/cm	0.0033 in/in	restricted

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	200 MPa	29000 psi	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	12.0 GPa	1740 ksi	ISO 527-1/-2
Tensile Creep Modulus, 1000 hours	8700 MPa @Strain <=0.500 %	1.26e+6 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.30 J/g-°C	0.311 BTU/lb-°F	
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft²-°F	DIN 52612
Melting Point	295 °C	563 °F	DIN 53765
Maximum Service Temperature, Air	135 °C	275 °F	for 50% loss of tensile strength after 20000hr
	160 °C	320 °F	for 50% loss of tensile strength after 5000hr
	270 °C	518 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093

Electrical Properties	Metric	English	Comments
	1.00e+8 ohm-cm @Temperature 140 °C	1.00e+8 ohm-cm @Temperature 284 °F	IEC 60093
	2.00e+10 ohm-cm @Temperature 100 °C	2.00e+10 ohm-cm @Temperature 212 °F	IEC 60093
	1.00e+11 ohm-cm @Temperature 80.0 °C	1.00e+11 ohm-cm @Temperature 176 °F	IEC 60093
	5.00e+11 ohm-cm @Temperature 60.0 °C	5.00e+11 ohm-cm @Temperature 140 °F	IEC 60093
	1.00e+13 ohm-cm @Temperature 40.0 °C	1.00e+13 ohm-cm @Temperature 104 °F	IEC 60093
	1.00e+15 ohm-cm @Temperature 20.0 °C	1.00e+15 ohm-cm @Temperature 68.0 °F	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.4 @Frequency 1.00 Hz	4.4 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.030 @Frequency 1.00e+6 Hz	0.030 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 330 °C	590 - 626 °F	Injection-molding/Extrusion
Mold Temperature	80.0 - 120 °C	176 - 248 °F	Injection-molding

Descriptive Properties	Value	Comments
Commercial Status	Europe	

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