

BASF Ultramid® KR 4350 PA6/6T (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Description: For injection-molding and extrusion, exhibiting 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]. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-KR-4350-PA66T-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	6.5 - 7.5 %	6.5 - 7.5 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.6 - 2.0 %	1.6 - 2.0 %	23°C; 50% RH; ISO 62
Viscosity Measurement	130	130	ISO 307
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	restricted

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	3.20 GPa	464 ksi	ISO 527-1/-2
Tensile Creep Modulus, 1000 hours	2300 MPa @Strain <=0.500 %	334000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	295 °C	563 °F	DIN 53765
Maximum Service Temperature, Air	110 °C	230 °F	for 50% loss of tensile strength after 20000hr
	130 °C	266 °F	for 50% loss of tensile strength after 5000hr
	250 °C	482 °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
	IEC 60112 ohm	IEC 60112 ohm	IEC 60112
Dielectric Constant	4.0	4.0	IEC 60250
	@Frequency 1.00 Hz	@Frequency 1.00 Hz	
Dissipation Factor	0.040	0.040	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
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	70.0 - 100 °C	158 - 212 °F	Injection-molding

Descriptive Properties	Value	Comments
Commercial Status	Europe	

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