

BASF Ultramid® KR 4365 G5 BK 00100 35% Glass Filled PA6/6T FR (Conditioned)

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

Material Notes:

Description: Partially aromatic polyamide; flame retardant based on red phosphorus; low water absorption, high melting point (295°C); low tendency to form deposits on electrical contacts, very resistant to electrolytic corrosion, resistant to soldering temperatures, can be electroplated. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-KR-4365-G5-BK-00100-35-Glass-Filled-PA66T-FR-Conditioned.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in ³	
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Water Absorption	5.0 - 6.0 %	5.0 - 6.0 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.1 - 1.5 %	1.1 - 1.5 %	23°C; 50% RH; ISO 62
Viscosity Measurement	130	130	ISO 307
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	restricted
Linear Mold Shrinkage, Flow	0.0041 cm/cm	0.0041 in/in	TM=320°C, TW=100°C
	0.0050 cm/cm	0.0050 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	140 MPa	20300 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	8.00 GPa	1160 ksi	ISO 527-1/-2
Tensile Creep Modulus, 1000 hours	6400 MPa @Strain <=0.500 %	928000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	295 °C	563 °F	DIN 53765
Maximum Service Temperature, Air	125 °C	257 °F	for 50% loss of tensile strength after 20000hr

Thermal Properties	Metric	English	Comments
	150 °C	302 °F	for 50% loss of tensile strength after 5000hr
	270 °C	518 °F	
Decomposition Temperature	>= 350 °C	>= 662 °F	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	300 °C	572 °F	Feed Zone
Zone 2	310 °C	590 °F	Compression
Zone 3	320 °C	608 °F	Metering-zone
Zone 4	320 °C	608 °F	Nozzle
Melt Temperature	>= 320 °C	>= 608 °F	Optimal
	310 - 330 °C	590 - 626 °F	Injection-molding/Extrusion
Mold Temperature	80.0 - 120 °C	176 - 248 °F	Injection-molding
	100 °C	212 °F	Optimal
Drying Temperature	110 °C	230 °F	
Dry Time	8 hour	8 hour	

Descriptive Properties	Value	Comments
Color	BK 00100	
Commercial Status	Europe	
Ignition Temperature	>470°C	ASTM D1929
Peripheral screw speed	< 0.3 m/s	

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