

BASF Ultramid® B35G3 BK 00564 15% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

Description: 15% glass fiber reinforced injection molding grade e.g. for internal gas pressure applications such as flashing direction switch gears, automobile mirror housings and wheels of mountain bikes. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B35G3-BK-00564-15-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in ³	
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Water Absorption	7.7 - 8.3 %	7.7 - 8.3 %	ISO 62
Moisture Absorption at Equilibrium	2.3 - 2.9 %	2.3 - 2.9 %	ISO 62
	2.6 %	2.6 %	50% RH
	8.0 %	8.0 %	Saturation
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	
Melt Flow	55.8 g/10 min	55.8 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	181 MPa	26300 psi	ISO 2039-1
Tensile Strength at Break	126 MPa	18300 psi	ISO 527-1/-2
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	156 MPa	22600 psi	ISO 527-1/-2
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	2.9 %	2.9 %	ISO 527-1/-2
Modulus of Elasticity	6.10 GPa	885 ksi	ISO 527-1/-2
Flexural Strength	189 MPa	27400 psi	ISO 178
Flexural Modulus	6.10 GPa	885 ksi	ISO 527
Charpy Impact Unnotched	4.70 J/cm ²	22.4 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.590 J/cm ²	2.81 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	214 °C	417 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	187 °C	369 °F	ISO 75-1/-2
Decomposition Temperature	>= 300 °C	>= 572 °F	
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	550 V	550 V	Test Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	260 °C	500 °F	Feed Zone
Zone 2	370 °C	698 °F	Compression
Zone 3	280 °C	536 °F	Metering-zone
Zone 4	280 °C	536 °F	Nozzle
Melt Temperature	270 - 290 °C	518 - 554 °F	Injection Molding/Extrusion
	280 °C	536 °F	Optimal
Mold Temperature	80.0 °C	176 °F	Optimal
	80.0 - 90.0 °C	176 - 194 °F	Injection Molding
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Optimal
	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Commercial Status	Europe and North America	

Ignition Temperature Descriptive Properties	>400°C Value	ASTM D1929 Comments
Peripheral screw speed	< 0.3 m/s	

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