BASF Ultramid® TG3S BK-104 15% Glass Filled PA6 (Dry)

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

Material Notes:

Ultramid TG3S BK-104 is a 15% glass reinforced, heat stabilized, impact modified PA6 injection molding compound developed for applications requiring improved toughness in combination with a balance of strength, stiffness, excellent moldability and surface aesthetics. It is available in natural, black and colors.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-TG3S-BK-104-15-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.0 MPa	13500 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	93.0 MPa	13500 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
Flexural Strength	150 MPa	21800 psi	ASTM Test
Flexural Modulus	4.39 GPa	637 ksi	ISO Data
	4.48 GPa	650 ksi	ASTM Test
Izod Impact, Notched	1.55 J/cm @Thickness 3.17 mm	2.90 ft-lb/in @Thickness 0.125 in	ASTM Test
Izod Impact, Notched (ISO)	17.0 kJ/m²	8.09 ft-lb/in²	ISO Test
	5.40 kJ/m² @Temperature -40.0 °C	2.57 ft-lb/in² @Temperature -40.0 °F	ISO Test
Charpy Impact, Notched	1.38 J/cm²	6.57 ft-lb/in²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	211 °C	412 °F	ASTM Test
	211 °C	412 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ISO 75
	190 °C	374 °F	ASTM Test
Flammability, UL94	HB @Thickness 1.00 mm	HB @Thickness 0.0394 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Descriptive Properties	Value	Comments
Color	BK-104	
Commercial Status	Active America	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
UL.UL-C	Yes	

Contact Songhan Plastic Technology Co.,Ltd.

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