

BASF Ultramid® TG7S BK-102 35% Glass Filled PA6 (Dry)

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

Material Notes:

Ultramid TG7S is a 34% glass reinforced, heat stabilized, impact modified nylon 6 injection molding grade. It was developed to meet the demanding requirements of the first North American seat cushion pan/frame to be made of an engineering plastic as opposed to metal.

TG7S exhibits improved strength, stiffness and notched properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-TG7S-BK-102-35-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 235 °C	6.0 g/10 min @Load 11.0 lb, Temperature 455 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	165 MPa	23900 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
Flexural Modulus	8.40 GPa	1220 ksi	ISO Data
Izod Impact, Notched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	ISO Test
	16.6 kJ/m ² @Temperature -40.0 °C	7.90 ft-lb/in ² @Temperature -40.0 °F	ISO Test
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	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)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	ISO 75

Descriptive Properties	Value	Comments
Color	BK-102	

Descriptive Properties	Value	Comments
Commercial Status	Active America	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	

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