BASF Ultramid® HMG13 HS BK-102 63% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Ultramid HMG13 HS BK-102 is a 63% glass filled, injection molding, high modulus nylon designed to have high strength and stiffness for metal replacement applications. It also has excellent moldability and outstanding surface appearance.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-HMG13-HS-BK-102-63-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	207 MPa	30000 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	245 MPa	35500 psi	5mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5mm/min; ISO 527
	3.0 %	3.0 %	0.2 in/min; ASTM Test
Tensile Modulus	22.4 GPa	3250 ksi	1mm/min; ISO 527
Flexural Strength	355 MPa	51500 psi	ISO Data
	378 MPa	54800 psi	ASTM Test
Flexural Modulus	17.3 GPa	2510 ksi	ASTM Test
	18.0 GPa	2610 ksi	ISO Data
Izod Impact, Notched	1.55 J/cm @Thickness 3.17 mm	2.90 ft-lb/in @Thickness 0.125 in	ASTM Test
Izod Impact, Unnotched	13.88 J/cm	26.00 ft-lb/in	ASTM Test
Izod Impact, Notched (ISO)	12.5 kJ/m²	5.95 ft-lb/in²	ISO Test

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM Test

Thermal Properties	Metric	English	Comments
	214 °C	417 °F	ISO 75
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL.UL-C	Yes	

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