

BASF Ultramid® HMG14 HS BK 102 60% Glass Filled PA66 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 60% Glass Fiber Filled

Material Notes:

Description: Ultramid HMG14 HS BK-102 is a 60% glass reinforced, injection molding grade of PA66 offering high strength and stiffness.

Due to inherently lower moisture absorption, Ultramid HMG14 HS BK-102 shows improved retention of mechanical properties after moisture conditioning. In addition, molded parts possess an exceptional surface finish. Applications: Ultramid HMG14 HS BK-102 was designed for applications requiring very high rigidity and should be considered for components that are constructed with metal. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-HMG14-HS-BK-102-60-Glass-Filled-PA66-Dry.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	248 MPa	36000 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ISO 527
Tensile Modulus	20.2 GPa	2930 ksi	ISO 527
Flexural Strength	383 MPa	55500 psi	ISO 178
Flexural Modulus	18.9 GPa	2740 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180
	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	9.50 J/cm ² @Temperature -30.0 °C	45.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	9.90 J/cm ² @Temperature 23.0 °C	47.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	1.30 J/cm ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ISO 3146

Thermal Properties	Metric	English	Comments
Strength at 1.8 MPa (264 psi)			

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 305 °C	536 - 581 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.12 %	<= 0.12 %	

Descriptive Properties	Value	Comments
Color	BK 102	
Commercial Status	North America	

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