

BASF Ultramid® 8333G HI HS BK-102 33% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

Ultramid 8333G HI HS BK-102 is a 33% glass reinforced, heat stabilized, impact modified, pigmented black, PA6 injection molding compound developed for applications requiring improved dry as molded toughness in combination with a balance of strength, stiffness and excellent moldability/surface aesthetics. It is also available in heat stabilized (Ultramid 8333G HI HS) and/or pigmented versions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8333G-HI-HS-BK-102-33-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	24 hour; ISO Test
	5.5 %	5.5 %	ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM Test
Tensile Strength at Break	150 MPa	21800 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	140 MPa	20300 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
	3.0 %	3.0 %	0.2 in/min; ASTM Test
Tensile Modulus	9.10 GPa	1320 ksi	1mm/min; ISO 527
Flexural Strength	210 MPa	30500 psi	ISO Data
	240 MPa	34800 psi	ASTM Test
Flexural Modulus	7.50 GPa	1090 ksi	ISO Data
	8.14 GPa	1180 ksi	ASTM Test
Izod Impact, Notched	1.05 J/cm	1.97 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.10 J/cm	3.93 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Impact, Notched (ISO) Mechanical Properties	Metric	English	ISO Test Comments
	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	7.10 J/cm ²	33.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

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)	205 °C	401 °F	ISO 75
	210 °C	410 °F	ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
UL-UL-C	Yes	

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