

BASF Ultramid® 8333G HI HS BK 106 33% Glass Filled PA6 (Dry)

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

Material Notes:

Description Ultramid 8333G HI HS BK-102 is a 33% glass reinforced, impact modified PA6 injection molding compound pigmented black developed for applications requiring improved dry as molded toughness in combination with a balance of strength, stiffness and excellent moldability/surface aesthetics. Applications: front wheel chair wheels, bicycle wheels, power tool housings, chain saw housings, clips and fasteners, hose clamps and window hardware. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8333G-HI-HS-BK-106-33-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.90 %	0.90 %	24 hour; ASTM D570
	1.5 %	1.5 %	50% RH; ASTM D570
	5.5 %	5.5 %	Saturation; ASTM D570
Linear Mold Shrinkage	0.00762 cm/cm	0.00762 in/in	1/8" bar

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	
Tensile Strength at Break	145 MPa	21000 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	232 MPa	33600 psi	ISO 790
Flexural Modulus	7.99 GPa	1160 ksi	ISO 178
Izod Impact, Notched (ISO)	182 kJ/m ²	86.6 ft-lb/in ²	ISO 3146

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	ASTM D648

Processing Properties	Metric	English	Comments
Zone 1	245 - 275 °C	473 - 527 °F	Rear Zone
Zone 2	260 - 285 °C	500 - 545 °F	Center Zone

Zone 3 Processing Properties	270 - 295 °C Metric	518 - 563 °F English	Front Zone Comments
Zone 4	270 - 295 °C	518 - 563 °F	Nozzle
Melt Temperature	270 - 295 °C	518 - 563 °F	
Mold Temperature	80.0 - 95.0 °C	176 - 203 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.080 %	<= 0.080 %	

Descriptive Properties	Value	Comments
Color	BK 106	
Commercial Status	North America	

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