

BASF Ultramid® HPN 9233G HS BK 102 33% Glass Filled PA6 (Dry)

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

Material Notes:

Description: Ultramid HPN 9233G HS BK-102 is a heat stabilized, pigmented black, 33% glass reinforced PA6 injection molding grade resin in the High Productivity Nylon Series developed for improved cycle times while maintaining excellent properties. It exhibits high strength, rigidity and heat resistance. Surface appearance has been improved, cycle times reduced and creep resistance retained. This heat stabilizer version extends the retention of mechanical properties at elevated temperatures while maintaining excellent chemical resistance to greases, oils and hydrocarbons. Applications: window locks, valve bodies, chair shells, door and window hardware, connectors, switch components, relay parts, terminal blocks, power tool housings, gears, chainsaws, blowers, trimmer housings and automotive housings. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-HPN-9233G-HS-BK-102-33-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	1.1 %	1.1 %	24 Hours; ASTM D570
	1.8 %	1.8 %	50% RH; ASTM D570
	6.4 %	6.4 %	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	120	120	ASTM D785
Tensile Strength at Break	175 MPa	25400 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	256 MPa	37100 psi	ASTM D790
Flexural Modulus	9.38 GPa	1360 ksi	ASTM D790
Izod Impact, Notched (ISO)	95.0 kJ/m ²	45.2 ft-lb/in ²	ASTM D256
Dart Drop, Total Energy	4.61 J	3.40 ft-lb	BASF

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 μm/m-°C	21.1 μin/in-°F	ASTM E831
Melting Point	220 °C	428 °F	ISO 3146
Deflection Temperature at 1.8 MPa			ASTM D648

(264 psi) Thermal Properties	208 °C Metric	406 °F English	Comments
UL RTI, Electrical	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	746B
UL RTI, Mechanical with Impact	115 °C @Thickness 1.50 mm	239 °F @Thickness 0.0591 in	746B
UL RTI, Mechanical without Impact	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
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	<= 0.10 %	<= 0.10 %	

Descriptive Properties	Value	Comments
Color	BK 102	
Commercial Status	North America	

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