

BASF Ultramid® 8231G HS BK-106 14% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled

Material Notes:

Ultramid 8231G HS BK-106 is a black pigmented heat stabilized, 14% glass fiber reinforced PA6 injection molding compound. The glass fiber reinforcement enhances performance such as strength, stiffness and heat deflection temperature. The heat stabilizer system extends the properties at elevated temperatures. It also has excellent chemical resistance to greases, oils and hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8231G-HS-BK-106-14-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Water Absorption	1.4 %	1.4 %	24 hour; ISO Test
	8.1 %	8.1 %	ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	23°C/50% R.H.; ISO 62
Viscosity Measurement	50	50	Formic Acid
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM Test
Tensile Strength at Break	118 MPa	17100 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	118 MPa	17100 psi	5mm/min; ISO 527
Elongation at Break	2.9 %	2.9 %	0.2 in/min; ASTM Test
Flexural Modulus	4.94 GPa	716 ksi	ASTM Test
	5.10 GPa	740 ksi	ISO Data
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	3.80 kJ/m ²	1.81 ft-lb/in ²	ISO Test

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C	27.8 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	

Melting Point Thermal Properties	220 °C Metric	428 °F English	10 K/min Comments
	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ISO 75
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Color	BK-106	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
UL.UL-C	Yes	

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