

BASF Ultramid® 8231G HS BK-102 14% Glass Filled PA6 (Conditioned)

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

Material Notes:

Ultramid 8231G HS BK-102 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-102-14-Glass-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	dry; ISO 1183
Water Absorption	1.4 %	1.4 %	24 hour; ISO Test
	8.1 %	8.1 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	beginning dry (23°C/50% R.H.); ISO 62
Relative Viscosity	2.6 cP	2.6 cP	ISO Test; 96 % SAV
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
Tensile Strength at Break	60.0 MPa	8700 psi	0.2 in/min; ASTM Test
	30.0 MPa	4350 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	30.0 MPa	4350 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	40.0 MPa	5800 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	40.0 MPa	5800 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	150 MPa	21800 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	150 MPa	21800 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength Ultimate	20 %	20 %	5mm/min; ISO 527
	20 %	20 %	0.2 in/min; ASTM Test
	3.0 %	3.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.0 %	3.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.0 %	9.0 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	9.0 %	9.0 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	15 %	15 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	15 %	15 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
Flexural Strength	3.10 GPa	450 ksi	1mm/min; ISO 527
	1.80 GPa	261 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	2.30 GPa	334 ksi	ISO Data
Flexural Modulus	@Temperature 80.0 °C	@Temperature 176 °F	
	6.90 GPa	1000 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.21 GPa	321 ksi	ISO Data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Processing Properties	Metric	English	Comments
Melt Temperature	275 °C	527 °F	Injection molding

Processing Properties	Metric	English	Comments
Mold Temperature	95.0 °C	203 °F	Injection molding

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
UL.UL -C	Yes	

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