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

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

Material Notes:

Ultramid 8231G HS is a heat stabilized, 14% glass fiber reinforced nylon 6 injection molding compound. It is also available in non-heat stabilized (Ultramid 8231) and/or pigmented versions. 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. njection molding compound possessing a balance of engineering properties combined with excellent processability and surface aesthetics.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-8231G-HS-14-Glass-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.067 g/cc	0.03855 lb/in³	Melt; ISO 1183
	1.23 g/cc	0.0444 lb/in³	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
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	79.0 MPa	11500 psi	0.2 in/min; ASTM Test
	20.0 MPa @Temperature 80.0 °C	2900 psi @Temperature 176 °F	ISO Data
	20.0 MPa @Temperature 80.0 °C	2900 psi @Temperature 176 °F	ASTM Test
	40.0 MPa @Temperature 120 °C	5800 psi @Temperature 248 °F	ISO Data
	40.0 MPa @Temperature 120 °C	5800 psi @Temperature 248 °F	ASTM Test
	170 MPa @Temperature -40.0 °C	24700 psi @Temperature -40.0 °F	ASTM Test

Mechanical Properties	Metric	English	Comments
	170 MPa @Temperature -40.0 °C	24700 psi @Temperature -40.0 °F	ISO Data
Tensile Strength, Ultimate	80.0 MPa	11600 psi	5mm/min; ISO 527
Elongation at Break	9.0 %	9.0 %	5mm/min; ISO 527
	9.0 %	9.0 %	0.2 in/min; ASTM Test
	4.0 % @Temperature -40.0 °C	4.0 % @Temperature -40.0 °F	ASTM Test
	4.0 % @Temperature -40.0 °C	4.0 % @Temperature -40.0 °F	ISO Data
	6.0 % @Temperature 120 °C	6.0 % @Temperature 248 °F	ISO Data
	6.0 % @Temperature 120 °C	6.0 % @Temperature 248 °F	ASTM Test
	15 % @Temperature 80.0 °C	15 % @Temperature 176 °F	ASTM Test
	15 % @Temperature 80.0 °C	15 % @Temperature 176 °F	ISO Data
Tensile Modulus	2.64 GPa	383 ksi	1mm/min; ISO 527
	1.90 GPa @Temperature 120 °C	276 ksi @Temperature 248 °F	ISO Data
	2.30 GPa @Temperature 80.0 °C	334 ksi @Temperature 176 °F	ISO Data
	6.60 GPa @Temperature -40.0 °C	957 ksi @Temperature -40.0 °F	ISO Data
Flexural Strength	65.0 MPa	9430 psi	ISO Data
	101 MPa	14600 psi	ASTM Test
	219 MPa @Temperature -40.0 °C	31800 psi @Temperature -40.0 °F	ASTM Test
Flexural Modulus	2.21 GPa	321 ksi	ISO Data
	2.40 GPa	348 ksi	ASTM Test

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.728 J/g-°C	0.6520 BTU/lb-°F	Melt
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft²-°F	Melt
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	275 °C	527 °F	Injection molding
Mold Temperature	95.0 °C	203 °F	Injection molding

Descriptive Properties	Value	Comments
Color	Natural	
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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China