

BASF Ultramid® 8233G HS 33% Glass Filled PA6 (Conditioned)

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

Material Notes:

Ultramid 8233G HS is a heat stabilized, 33% glass fiber reinforced nylon 6 molding compound offering excellent strength, stiffness, high temperature performance and dimensional stability. It is also available in non-heat stabilized and/or pigmented versions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8233G-HS-33-Glass-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.136 g/cc	0.04104 lb/in ³	Melt; ISO 1183
	1.39 g/cc	0.0502 lb/in ³	dry; ISO 1183
Water Absorption	1.1 %	1.1 %	24 hour; ISO Test
	6.4 %	6.4 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	1.8 %	1.8 %	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	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	0.2 in/min; ASTM Test
	60.0 MPa	8700 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	60.0 MPa	8700 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	80.0 MPa	11600 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	80.0 MPa	11600 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	255 MPa	37000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	255 MPa	37000 psi	ISO Data

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
Tensile Strength, Ultimate	125 MPa	18100 psi	5mm/min; ISO 527
Elongation at Break	6.0 %	6.0 %	5mm/min; ISO 527
	6.0 %	6.0 %	0.2 in/min; ASTM Test
	3.5 %	3.5 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.5 %	3.5 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	6.0 %	6.0 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	6.0 %	6.0 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.0 %	6.0 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	6.0 %	6.0 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
Tensile Modulus	5.84 GPa	847 ksi	1mm/min; ISO 527
	3.40 GPa	493 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	4.30 GPa	624 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	11.6 GPa	1680 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	130 MPa	18900 psi	ISO Data
	179 MPa	26000 psi	ASTM Test
	361 MPa	52400 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	5.13 GPa	744 ksi	ASTM Test
	5.20 GPa	754 ksi	ISO Data
	1.07 J/cm	2.00 ft-lb/in	

Izod Impact Notched Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	ASTM Test Comments
	2.35 J/cm	4.40 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.434 J/g-°C	0.5817 BTU/lb-°F	Melt
Thermal Conductivity	0.275 W/m-K	1.91 BTU-in/hr-ft ² -°F	Melt
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

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	

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