

BASF Ultramid® 8333G HI 33% Glass Filled PA6 (Dry)

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

Material Notes:

Ultramid 8333G HI is a 14% glass reinforced, impact modified PA6 injection molding compound developed for applications requiring improved dry as molded toughness in combination with a balance of strength, stiffness and excellent moldability/surface aesthetics. It is also available in heat stabilized (Ultramid 8331G HI HS) and/or pigmented versions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8333G-HI-33-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	Melt; ISO 1183
	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	24 hour; ISO Test
	5.5 %	5.5 %	ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM Test
Tensile Strength at Break	152 MPa	22000 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	145 MPa	21000 psi	5mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5mm/min; ISO 527
	3.5 %	3.5 %	0.2 in/min; ASTM Test
Tensile Modulus	9.30 GPa	1350 ksi	1mm/min; ISO 527
	2.66 GPa	386 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Strength	9.20 GPa	1330 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	215 MPa	31200 psi	ISO Data
	241 MPa	35000 psi	ASTM Test
Impact Strength	89.0 MPa	12900 psi	ASTM Test

Mechanical Properties	@Temperature 120 °C Metric	@Temperature 248 °F English	Comments
	105 MPa	15200 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	130 MPa	18900 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	310 MPa	45000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	7.20 GPa	1040 ksi	ISO Data
	8.00 GPa	1160 ksi	ASTM Test
	3.04 GPa	441 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	3.28 GPa	476 ksi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	4.04 GPa	586 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	2.39 J/cm	4.48 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	21.0 kJ/m ²	9.99 ft-lb/in ²	ISO Test
	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	7.80 J/cm ²	37.1 ft-lb/in ²	ISO 179
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179
	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 μm/m-°C	13.3 μin/in-°F	ISO 11359
CTE, linear, Transverse to Flow	84.0 μm/m-°C	46.7 μin/in-°F	ISO 11359
Specific Heat Capacity	1.958 J/g-°C	0.4680 BTU/lb-°F	Melt
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	Melt

Melting Point Thermal Properties	220 °C Metric	428 °F English	10 K/min Comments
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75
	210 °C	410 °F	ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.8	3.8	ASTM Data
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
	3.8	3.8	ASTM Data
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.010	0.010	ASTM Data
	@Frequency 1e+9 Hz	@Frequency 1e+9 Hz	
	0.010	0.010	ASTM Data
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.010	0.010	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.010	0.010	IEC 60250

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
Comparative Tracking Index	600 V	600 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	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL.UL-C	Yes	

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