

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

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-Conditioned.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	dry; ISO 1183
Water Absorption	0.90 %	0.90 %	24 hour; ISO Test
	5.5 %	5.5 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	beginning dry (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
Tensile Strength at Break	90.0 MPa	13100 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	90.0 MPa	13100 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
Tensile Modulus	4.61 GPa	669 ksi	1mm/min; ISO 527
Flexural Strength	120 MPa	17400 psi	ISO Data
	124 MPa	18000 psi	ASTM Test
	90.0 MPa	13100 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	100 MPa	14500 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	110 MPa	16000 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	

Mechanical Properties	297 MPa Metric	43100 psi English	Comments ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	4.83 GPa	701 ksi	ASTM Test
	5.03 GPa	730 ksi	ISO Data
	2.97 GPa	431 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	3.25 GPa	471 ksi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	3.29 GPa	477 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	

Thermal Properties	Metric	English	Comments
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	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
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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