

BASF Ultramid® 8234G HS 44% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

Material Notes:

Ultramid 8234G HS is a heat stabilized, 44% glass fiber reinforced polyamide 6 injection molding compound offering the highest level of strength, stiffness, high temperature performance and dimensional stability. It is available in natural, black, weather resistance and pigmented versions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8234G-HS-44-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.2784 g/cc	0.046185 lb/in ³	Melt; ISO 1183
	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	24 hour; ISO Test
	5.2 %	5.2 %	ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	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	0.0020 cm/cm	0.0020 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM Test
Tensile Strength at Break	230 MPa	33400 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	215 MPa	31200 psi	5mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	0.2 in/min; ASTM Test
	3.0 %	3.0 %	5mm/min; ISO 527
Tensile Modulus	13.5 GPa	1960 ksi	1mm/min; ISO 527
Flexural Strength	325 MPa	47100 psi	ISO Data
	352 MPa	51100 psi	ASTM Test
	138 MPa	20000 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	160 MPa	23200 psi	ASTM Test

Mechanical Properties	@Temperature 93.0 °C Metric	@Temperature 199 °F English	Comments
	220 MPa	31900 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	450 MPa	65300 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	11.4 GPa	1650 ksi	ISO Data
	11.7 GPa	1700 ksi	ASTM Test
	4.83 GPa	701 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	7.00 GPa	1020 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	1.34 J/cm	2.51 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	ISO Test
	11.0 kJ/m ²	5.23 ft-lb/in ²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	2.10 J/cm ²	9.99 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 µm/m-°C	17.2 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Parallel to Flow	32.0 µm/m-°C	17.8 µin/in-°F	ISO 11359
CTE, linear, Transverse to Flow	79.0 µm/m-°C	43.9 µin/in-°F	ISO 11359
Specific Heat Capacity	2.522 J/g-°C	0.6028 BTU/lb-°F	Melt
Thermal Conductivity	0.329 W/m-K	2.28 BTU-in/hr-ft ² -°F	Melt
Melting Point	220 °C	428 °F	10 K/min
	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 (104 psi) Thermal Properties	210 °C Metric	410 °F English	ISO 75 Comments
	212 °C	414 °F	ASTM Test
Flammability, UL94	HB	HB	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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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