

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

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-Conditioned.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	dry; ISO 1183
Water Absorption	0.90 %	0.90 %	24 hour; ISO Test
	5.2 %	5.2 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	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	0.0020 cm/cm	0.0020 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	145 MPa	21000 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	7.49 GPa	1090 ksi	1mm/min; ISO 527
Flexural Strength	212 MPa	30700 psi	ASTM Test
	410 MPa @Temperature -40.0 °C	59500 psi @Temperature -40.0 °F	ASTM Test
Flexural Modulus	6.56 GPa	951 ksi	ASTM Test

Thermal Properties	Metric	English	Comments
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Specific Heat Capacity Thermal Properties	2.522 J/g-°C Metric	0.6028 BTU/lb-°F English	Melt Comments
Thermal Conductivity	0.329 W/m-K	2.28 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
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Comparative Tracking Index	500 V	500 V	IEC 60112

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