

BASF Ultramid® 8232G HS FR 25% Glass Fiber Fire Retardant PA6 (Dry)

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

Material Notes:

Description: Ultramid 8232G HS FR is a 25% glass fiber reinforced, heat stabilized, flame retardant PA6 injection molding compound exhibiting excellent melt stability characteristics. It combines flame retardant ability with an excellent balance of high strength, stiffness and heat distortion temperature. Applications: connectors, terminal blocks, switches and receptacles, coil bobbins, and appliance housing

Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8232G-HS-FR-25-Glass-Fiber-Fire-Retardant-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	0.90 %	0.90 %	24 hour; ASTM D570
	1.1 %	1.1 %	50% RH; ASTM D570
	4.0 %	4.0 %	Saturation; ASTM D570
Linear Mold Shrinkage	0.00762 cm/cm	0.00762 in/in	1/8" bar

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	157 MPa	22800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	232 MPa	33600 psi	ASTM D790
Flexural Modulus	8.97 GPa	1300 ksi	ASTM D790
Izod Impact, Notched (ISO)	107 kJ/m ²	50.9 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ASTM D684
UL RTI, Electrical	130 °C	266 °F	746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
UL RTI, Mechanical with Impact	115 °C	239 °F	746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties	Metric	English	Comments
UL 94, Mechanical without impact	@Thickness 1.50 mm	@Thickness 0.0591 in	746B
Flammability, UL94	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	5VB	5VB	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	29.0 kV/mm	737 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 °C	482 - 554 °F	
Mold Temperature	80.0 - 95.0 °C	176 - 203 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	White to gray	
Commercial Status	North America	

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