

BASF Ultramid® 8232G HS FR BK-102 25% Glass Filled PA6 (Dry)

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

Material Notes:

Ultramid 8232G HS FR BK-102 is a 25% glass fiber reinforced, heat stabilized, flame retardant pigmented black 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8232G-HS-FR-BK-102-25-Glass-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	ISO 1183
Water Absorption	4.0 %	4.0 %	ISO 62
Moisture Absorption at Equilibrium	1.1 %	1.1 %	23°C/50% R.H.; ISO 62
Viscosity Measurement	50	50	Formic Acid
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	145 MPa	21000 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	145 MPa	21000 psi	5mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	5mm/min; ISO 527
	2.5 %	2.5 %	0.2 in/min; ASTM Test
Flexural Strength	210 MPa	30500 psi	ASTM Test
Flexural Modulus	9.17 GPa	1330 ksi	ASTM Test
Izod Impact, Notched	0.800 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM Test

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ASTM Test

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 0.840 mm	@Thickness 0.0331 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	5VA	5VA	
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Descriptive Properties	Value	Comments
Color	BK-102	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
UL.UL-C	Yes	

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