

BASF Ultramid® BG40GM45 HS BK 00130 20/25 % Glass/Mineral Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Description: Ultramid® BG40GM45 HS BK-130 is a pigmented black, heat stabilized, 45 % glass and mineral fiber reinforced polyamide 6 injection molding compound. It possesses a balance of engineering properties in combination with excellent dimensional stability, low warp and resistance to sink-mark-formation. It is ideally suited for applications such as rotors, wheels, rims, timing belt covers, automotive cooling fans, shrouds as well as interior and exterior door handles. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-BG40GM45-HS-BK-00130-2025-GlassMineral-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.800 g/cc	0.0181 - 0.0289 lb/in³	
Density	1.51 g/cc	0.0546 lb/in³	ISO 1183
Viscosity Measurement	142	142	ISO 307

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	250 MPa	36300 psi	358; ISO 2039-2
	@Load 3.06 kg	@Load 6.74 lb	
Tensile Strength, Yield	140 MPa	20300 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	10.5 GPa	1520 ksi	ISO 527-2
Flexural Strength	210 MPa	30500 psi	ISO 178
Flexural Modulus	8.70 GPa	1260 ksi	ISO 178
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.600 J/cm²	2.86 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-2

Thermal Properties Deflection Temperature at 1.8 MPa (100 psi)	200 °C Metric	392 °F English	ISO 75-2 Comments
Decomposition Temperature	>= 300 °C	>= 572 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 °C	176 °F	Hopper Throat
Zone 1	270 °C	518 °F	Feed Zone
Zone 2	280 °C	536 °F	Compression
Zone 3	290 °C	554 °F	Metering-zone
Zone 4	290 °C	554 °F	Nozzle
Melt Temperature	280 - 300 °C	536 - 572 °F	Injection Molding/Extrusion
	290 °C	554 °F	Optimal
Mold Temperature	80.0 °C	176 °F	Optimal
	80.0 - 90.0 °C	176 - 194 °F	Injection Molding/Extrusion
Drying Temperature	80.0 °C	176 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Optimal
	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Color	BK 00130	
Commercial Status	Europe	
Ignition Temperature	>400°C	ASTM D1929
Peripheral screw speed	< 0.3 m/s	

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