

## BASF Ultramid® 82335G HS BK 102 50% Glass Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

### Material Notes:

Description: Ultramid 8235G HS BK-102 is a heat stabilized, pigmented black, 50% glass fiber reinforced PA6 injection molding compound offering excellent level of strength, stiffness, high temperature performance and dimensional stability. Its resistance to creep under load is excellent. It is available in natural, black, weather resistance and pigmented versions. Applications: Ultramid 8235G HS BK-102 is generally recommended for applications such as power tool housings, cattle ear taggers, luggage frames, fans and pressure regulator housings. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-82335G-HS-BK-102-50-Glass-Filled-PA6-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-82335G-HS-BK-102-50-Glass-Filled-PA6-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	1.4 %	1.4 %	50% RH; ISO 62
	4.8 %	4.8 %	Saturation; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	1.58 GPa	229 ksi	ISO 527
Flexural Strength	300 MPa	43500 psi	ISO 178
Flexural Modulus	13.2 GPa	1910 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	ISO 179

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

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 305 °C	536 - 581 °F	
Mold Temperature	80.0 - 95.0 °C	176 - 203 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	>= 0.060 %	>= 0.060 %	
Injection Pressure	35.0 - 125 MPa	5080 - 18100 psi	

Descriptive Properties	Value	Comments
Color	BK 102	
Commercial Status	North America	

## Contact Songhan Plastic Technology Co.,Ltd.

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