

## BASF Ultramid® 8262G HS BK-102 7/13% Glass/Mineral Filled PA6 (Dry)

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

### Material Notes:

Ultramid 8262G HS BK-102 is a heat stabilized, pigmented black, 20% glass and mineral reinforced PA6 injection molding compound resulting in a balance of engineering properties with excellent dimensional stability, low warp and good resistance to sink mark formation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-8262G-HS-BK-102-713-GlassMineral-Filled-PA6-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-8262G-HS-BK-102-713-GlassMineral-Filled-PA6-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.3 %	1.3 %	24 hour; ISO Test
	7.9 %	7.9 %	ISO 62
Moisture Absorption at Equilibrium	2.2 %	2.2 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM Test
Tensile Strength at Break	100 MPa	14500 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	100 MPa	14500 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
	3.0 %	3.0 %	0.2 in/min; ASTM Test
Tensile Modulus	5.20 GPa	754 ksi	1mm/min; ISO 527
Flexural Strength	170 MPa	24700 psi	ASTM Test
Flexural Modulus	4.20 GPa	609 ksi	ISO Data
	4.60 GPa	667 ksi	ASTM Test
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM Test
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ISO Test
	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric <sup>1</sup> /cm <sup>2</sup>	English <sup>1b</sup> /in <sup>2</sup>	Comments
	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	211 °C	412 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ISO 75
	193 °C	379 °F	ASTM Test
Flammability, UL94	HB	HB	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	275 °C	527 °F	Injection molding
Mold Temperature	95.0 °C	203 °F	Injection molding

Descriptive Properties	Value	Comments
Color	BK-102	
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	

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