

BASF Ultramid® 8260 HS BK-102 40% Mineral Filled PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Mineral Filled

Material Notes:

Ultramid 8260 HS BK-102 is a heat stabilized, pigmented black, 40% mineral reinforced PA6 injection molding resin. It possesses high stiffness, dimensional stability and heat resistance combined with excellent processability including low warp and resistance to sink-mark formation. It maintains its inherent chemical resistance to greases, oils and hydrocarbons.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8260-HS-BK-102-40-Mineral-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Water Absorption	1.1 %	1.1 %	24 hour; ISO Test
	5.7 %	5.7 %	ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM Test
Tensile Strength at Break	85.0 MPa	12300 psi	0.2 in/min; ASTM Test
	30.0 MPa	4350 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 MPa	4350 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	40.0 MPa	5800 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	40.0 MPa	5800 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	135 MPa	19600 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	135 MPa	19600 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Ultimate	85.0 MPa	12300 psi	5mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	10 %	10 %	5mm/min; ISO 527
	6.0 %	6.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	6.0 %	6.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	35 %	35 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	35 %	35 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	40 %	40 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	40 %	40 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	6.40 GPa	928 ksi	1mm/min; ISO 527
	0.970 GPa	141 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	1.36 GPa	197 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	8.31 GPa	1210 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	140 MPa	20300 psi	ISO Data
Flexural Modulus	5.20 GPa	754 ksi	ISO Data
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO Test
Charpy Impact Unnotched	13.0 J/cm ²	61.9 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
	50.0 µm/m-°C	27.8 µin/in-°F	
CTE, linear	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	ASTM Test

Melting Point Thermal Properties	220 °C Metric	428 °F English	10 K/min Comments
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ISO 75
Flammability, UL94	HB	HB	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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	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	
	X	
UL-UL-C	Yes	

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