

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

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	dry; ISO 1183
Water Absorption	1.1 %	1.1 %	24 hour; ISO Test
	5.7 %	5.7 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	beginning dry (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
Tensile Strength at Break	60.0 MPa	8700 psi	0.2 in/min; ASTM Test
	27.0 MPa	3920 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	27.0 MPa	3920 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	35.0 MPa	5080 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	35.0 MPa	5080 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	60.0 MPa	8700 psi	5mm/min; ISO 527
Elongation at Break	30 %	30 %	5mm/min; ISO 527

Mechanical Properties	Metric	English	Comments
	5.0 %	5.0 %	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	5.0 %	5.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	30 %	30 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	30 %	30 %	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	3.80 GPa	551 ksi	1mm/min; ISO 527
	1.20 GPa	174 ksi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	1.40 GPa	203 ksi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	7.70 GPa	1120 ksi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Strength	50.0 MPa	7250 psi	ISO Data
Flexural Modulus	2.10 GPa	305 ksi	ISO Data

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test

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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