

## BASF Ultramid® 8260 40% Mineral Filled PA6 (Dry)

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

### Material Notes:

Ultramid 8260 is a 40% mineral reinforced PA6 injection molding compound. It possesses high stiffness, dimensional stability and heat resistance combined with excellent processability including low warp and resistance to sink-mark formation. It is also available in heat stabilized (Ultramid 8260 HS) versions. It can be painted or chrome plated and is also available in pigmented versions.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-8260-40-Mineral-Filled-PA6-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-8260-40-Mineral-Filled-PA6-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.291 g/cc	0.04664 lb/in <sup>3</sup>	Melt; ISO 1183
	1.49 g/cc	0.0538 lb/in <sup>3</sup>	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	90.0 MPa	13100 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	85.0 MPa	12300 psi	5mm/min; ISO 527
Elongation at Break	10 %	10 %	5mm/min; ISO 527
	10 %	10 %	0.2 in/min; ASTM Test
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	138 MPa	20000 psi	ASTM Test

Mechanical Properties	140 MPa Metric	20300 psi English	ISO Data Comments
	34.0 MPa	4930 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	35.0 MPa	5080 psi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	55.0 MPa	7980 psi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
	207 MPa	30000 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	5.20 GPa	754 ksi	ISO Data
	5.76 GPa	835 ksi	ASTM Test
	0.810 GPa	117 ksi	ASTM Test
	@Temperature 93.0 °C	@Temperature 199 °F	
	0.815 GPa	118 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	1.54 GPa	223 ksi	ASTM Test
	@Temperature 65.0 °C	@Temperature 149 °F	
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	16.4 J/cm	30.7 ft-lb/in	ASTM Test
Charpy Impact Unnotched	11.5 J/cm <sup>2</sup>	54.7 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179
	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
CTE, linear	50.0 µm/m-°C	27.8 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Parallel to Flow	46.0 µm/m-°C	25.6 µin/in-°F	ISO 11359
CTE, linear, Transverse to Flow	58.0 µm/m-°C	32.2 µin/in-°F	ISO 11359

Specific Heat Capacity Thermal Properties	1.999 J/g-°C Metric	0.4778 BTU/lb-°F English	Melt Comments
Thermal Conductivity	0.281 W/m-K	1.95 BTU-in/hr-ft <sup>2</sup> -°F	Melt
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ASTM Test

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	Natural	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	X	

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