

BASF Ultramid® 8260 HS PA6 (Dry)

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-8260-HS-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.291 g/cc	0.04664 lb/in ³	Melt; ISO 1183
	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Water Absorption	5.7 %	5.7 %	ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	23°C/50% R.H.; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	85.0 MPa	12300 psi	5mm/min; ISO 527
Elongation at Break	10 %	10 %	5mm/min; ISO 527
Tensile Modulus	6.40 GPa	928 ksi	1mm/min; ISO 527
Charpy Impact Unnotched	11.5 J/cm ²	54.7 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
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	1.999 J/g-°C	0.4778 BTU/lb-°F	Melt
Thermal Conductivity	0.281 W/m-K	1.95 BTU-in/hr-ft ² -°F	Melt
Melting Point	220 °C	428 °F	10 K/min
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	ISO 75
Flammability, UL94	HB	HB	
	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
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
Form	Pellets	
Processing	Injection Molding	
Special characteristic	Heat stabilized or stable to heat	
	X	

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