

BASF Ultramid® B3UGM210 GR 22866 10/50% Glass/Mineral Filled PA6 FR (Conditioned)

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

Material Notes:

Description: Halogen- and phosphorus-free injection-molding grade with very high rigidity, low smoke density and outstanding electrical properties. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-B3UGM210-GR-22866-1050-GlassMineral-Filled-PA6-FR-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in ³	ISO 1183
Water Absorption	4.1 - 4.7 %	4.1 - 4.7 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	1.0 - 1.4 %	1.0 - 1.4 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	restricted
Melt Flow	41.75 g/10 min @Load 5.00 kg, Temperature 275 °C	41.75 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	50 mm/min; ISO 527-1/-2
Elongation at Yield	2.5 %	2.5 %	50 mm/min; ISO 527-1/-2
Modulus of Elasticity	6.50 GPa	943 ksi	ISO 527-1/-2
Flexural Strength	115 MPa	16700 psi	at max force; ISO 178
Charpy Impact Unnotched	3.00 J/cm ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.270 J/cm ² @Temperature 23.0 °C	1.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.40 J/g-°C	0.335 BTU/lb-°F	
Thermal Conductivity	1.00 W/m-K	6.94 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53765
			for 50% loss of tensile strength after

Maximum Service Temperature, Air Thermal Properties	149 °C Metric	300 °F English	20000hr Comments
	167 °C	333 °F	for 50% loss of tensile strength after 5000hr
	200 °C	392 °F	
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	5.0 @Frequency 1.00 Hz	5.0 @Frequency 1.00 Hz	IEC 60250
Dissipation Factor	0.050 @Frequency 1.00e+6 Hz	0.050 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	290 - 310 °C	554 - 590 °F	Injection-molding/Extrusion
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	Injection-molding

Descriptive Properties	Value	Comments
Color	GR 22866	
Commercial Status	Europe	

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