BASF Ultramid® B3WGM24 BK30564 10/20% Glass/Mineral Filled PA6 (Dry)

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

Material Notes:

Ultramid B3WGM24 BK30564 is a 30% glass/mineral filled heat stabilized injection molding PA6 grade for industrial articles having medium to high rigidity and high dimensional stability.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-B3WGM24-BK30564-1020-GlassMineral-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in³	ISO 1183
Water Absorption	7.2 %	7.2 %	ISO 62
Moisture Absorption at Equilibrium	2.3 %	2.3 %	23°C/50% R.H.; ISO 62
Viscosity Test	140 cm³/g	140 cm³/g	Viscosity number

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
Tensile Modulus	9.30 GPa	1350 ksi	1mm/min; ISO 527
Flexural Strength	180 MPa	26100 psi	ISO Data
Flexural Modulus	8.40 GPa	1220 ksi	ISO Data
Izod Impact, Notched (ISO)	5.50 kJ/m²	2.62 ft-lb/in²	ISO Test
Charpy Impact Unnotched	5.20 J/cm²	24.7 ft-lb/in²	ISO 179
	5.00 J/cm² @Temperature -30.0 °C	23.8 ft-lb/in² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	ISO 179
	0.500 J/cm² @Temperature -30.0 °C	2.38 ft-lb/in² @Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	36.0 µm/m-°C	20.0 µin/in-°F	ISO 11359
Melting Point	220 °C	428 °F	10 K/min
Deflection Temperature at 0.46 MPa	215 °C	419 °F	

Thermal Properties	Metric	English	Comments
(66 psi)			ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ISO 75

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	400 V	400 V	IEC 60112

Descriptive Properties	Value	Comments
Color	BK30564	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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