BASF Ultramid® B3GM35 Q611 15/25% Glass/Mineral Filled PA6 (Conditioned)

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

Material Notes:

Ultramid B3GM35 Q611 is a 40% combined glass-fiber and mineral reinforced injection molding PA6 grade.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultramid-B3GM35-Q611-1525-GlassMineral-Filled-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in³	dry; ISO 1183
Water Absorption	6.6 %	6.6 %	beginning dry; ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	beginning dry (23°C/50% R.H.); ISO 62
Viscosity Test	130 cm³/g	130 cm³/g	Viscosity number
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM Data; MD
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 275 °C	25 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.0 MPa	9430 psi	5mm/min; ISO 527
Elongation at Break	12 %	12 %	5mm/min; ISO 527
Tensile Modulus	5.00 GPa	725 ksi	1mm/min; ISO 527
Tensile Creep Modulus, 1 hour	2800 MPa	406000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	1850 MPa	268000 psi	ISO 899

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	6.2 @Frequency 1.00e+6 Hz	6.2 @Frequency 1.00e+6 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	0.020 @Frequency 100 Hz	0.020 @Frequency 100 Hz	IEC 60250

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

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