

BASF Ultramid® B3GM35 Q643 15/25% Glass/Mineral Filled PA6 (Dry)

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

Material Notes:

Ultramid B3GM35 Q643 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-Q643-1525-GlassMineral-Filled-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	6.6 %	6.6 %	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	123 MPa	17800 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	123 MPa	17800 psi	5mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	0.2 in/min; ASTM Test
	2.7 %	2.7 %	5mm/min; ISO 527
Tensile Modulus	7.96 GPa	1150 ksi	1mm/min; ISO 527
Flexural Modulus	7.50 GPa	1090 ksi	ISO Data
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.530 J/cm	0.993 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	4.80 kJ/m ²	2.28 ft-lb/in ²	ISO Test
Charpy Impact, Notched	0.410 J/cm ²	1.95 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10 K/min
	220 °C	428 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	198 °C	388 °F	ASTM Test

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

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