

BASF Ultramid® B3GK24

Ultramid B3GK24 is 30% combined glass-fiber and glass bead injection molding PA6 grade for industrial articles having very high dimensional stability.

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Water Absorption	6.3 - 6.9 %	6.3 - 6.9 %	ISO 62
Moisture Absorption at Equilibrium	1.9 - 2.3 %	1.9 - 2.3 %	23°C/50% R.H.; ISO 62
Viscosity Number	140 cm ³ /g	1.40 dl/g	ISO 307
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	

Melt Flow	93.8 g/10 min @Load 5.00 kg, Temperature 275 °C	93.8 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	110 MPa	16000 psi	50mm/min; ISO 527
Elongation at Yield	3.5 %	3.5 %	50mm/min; ISO 527
Modulus of Elasticity	6.00 GPa	870 ksi	ISO 527
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180/A
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/1eU
	3.90 J/cm ² @Temperature -30.0 °C	18.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
	0.450 J/cm ² @Temperature -30.0 °C	2.14 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.9 @Frequency 1e+6 Hz	3.9 @Frequency 1e+6 Hz	IEC 60250
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	IEC 60250

Comparative Tracking Index	425 V	425 V	Test Solution A; IEC 60112
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