

BASF Ultramid® B3G8

Ultramid B3G8 BK00564 is a 40% glass filled, pigmented black, injection molding PA6 grade.

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Water Absorption	5.4 - 6.0 %	5.4 - 6.0 %	ISO 62
Moisture Absorption at Equilibrium	1.6 - 2.0 %	1.6 - 2.0 %	23°C/50% R.H.; ISO 62
Viscosity Number	140 cm ³ /g	1.40 dl/g	ISO 307
Melt Flow	78.65 g/10 min @Load 5.00 kg, Temperature 275 °C	78.65 g/10 min @Load 11.0 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	205 MPa	29700 psi	50mm/min; ISO 527
Elongation at Yield	2.8 %	2.8 %	50mm/min; ISO 527
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	10.5 GPa	1520 ksi	ISO 178
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	ISO 180/A
	12.0 kJ/m ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	ISO 179/1eU
	8.50 J/cm ² @Temperature -30.0 °C	40.5 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179/1eA
	1.10 J/cm ² @Temperature -30.0 °C	5.24 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA