

BASF Ultraform® N2644 Z9 POM + PUR

Description: Elastomer modified injection molding grade for applications requiring low modulus. Good acoustic damping.

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.850 g/cc	0.0235 - 0.0307 lb/in ³	
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0148 cm/cm	0.0148 in/in	ISO 2577
Melt Flow	15.24 g/10 min @Load 2.16 kg, Temperature 190 °C	15.24 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	30.0 MPa @Load 13.5 kg, Time 30.0 sec	4350 psi @Load 29.7 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	22.0 MPa	3190 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	50 %	50 %	50 mm/min, Nominal; ISO 527-1/-2
Elongation at Yield	25 %	25 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	0.700 GPa	102 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.850 J/cm ² @Temperature 23.0 °C	4.04 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	5.0 @Frequency 1e+6 Hz	5.0 @Frequency 1e+6 Hz	IEC 60250
Dissipation Factor	0.026 @Frequency 1e+6 Hz	0.026 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test Solution A; IEC 60112