

BASF Ultraform® N 2310P Q600 POM

Ultraform N2310P Q600 is a general-purpose injection molding POM grade containing special lubricant. Low frictional coefficient giving extremely low wear with otherwise unaltered mechanical properties.

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.; ISO 62

Melt Flow	7.5 g/10 min @Load 2.16 kg, Temperature 190 °C	7.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa	21000 psi	IEC 2039
Tensile Strength, Yield	61.0 MPa	8850 psi	50mm/min; ISO 527
Elongation at Break	31 %	31 %	ISO 527
Elongation at Yield	9.3 %	9.3 %	ISO 527
Modulus of Elasticity	2.60 GPa	377 ksi	SIO 527
Izod Impact, Notched	0.550 J/cm @Temperature -30.0 °C	1.03 ft-lb/in @Temperature -22.0 °F	ISO 180/A
	0.530 J/cm @Thickness 584 mm	0.993 ft-lb/in @Thickness 23.0 in	ISO 180/A
Charpy Impact Unnotched	20.0 J/cm ²	95.2 ft-lb/in ²	ISO 179
	18.0 J/cm ² @Temperature -30.0 °C	85.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
Tensile Creep Modulus, 1000 hours	1300 MPa	189000 psi	ISO 899

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.8 @Frequency 100 Hz	3.8 @Frequency 100 Hz	IEC 60250
	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	IEC 60250
	0.0050 @Frequency 1e+6 Hz	0.0050 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Test Solution A; IEC 60112
	600 V	600 V	Test Solution B; IEC 60112