

BASF Ultraform® N2720 M210 POM

Description: Is a POM, product with increased stiffness and strength as well as good wear characteristics, used, for instance, for sliding chains and conveyor systems.
Information provided by BASF

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.900 g/cc	0.0235 - 0.0325 lb/in ³	
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH; ISO 62
Water Absorption at Saturation	0.80 %	0.80 %	ISO 62
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO 2577
Melt Flow	10.36 g/10 min @Load 2.16 kg, Temperature 190 °C	10.36 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa @Load 36.5 kg, Time 30.0 sec	21000 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	63.0 MPa	9140 psi	50 mm/min; ISO 527-2
Elongation at Break	18 %	18 %	Nominal, 50mm/min; ISO 527-2
Elongation at Yield	6.5 %	6.5 %	ISO 527-2
Modulus of Elasticity	4.00 GPa	580 ksi	ISO 527-2
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ² @Temperature -30.0 °C	1.67 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.350 J/cm ² @Temperature 23.0 °C	1.67 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.8 @Frequency 1e+6 Hz	3.8 @Frequency 1e+6 Hz	IEC 60250
	3.9 @Frequency 100 Hz	3.9 @Frequency 100 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	IEC 60250
	0.0060 @Frequency 1e+6 Hz	0.0060 @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