

# BASF Ultraform® N2720 M63 30% Mineral Filled POM

Description: Is a POM, 30 % mineral-reinforced material for low-warpage moldings with high stiffness, strength and hardness.  
Information provided by BASF

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.900 g/cc	0.0235 - 0.0325 lb/in <sup>3</sup>	
Density	1.65 g/cc	0.0596 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C; 50% RH; ISO 62
Water Absorption at Saturation	0.90 %	0.90 %	ISO 62
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ISO 2577
Melt Flow	6.27 g/10 min @Load 2.16 kg, Temperature 190 °C	6.27 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	190 MPa @Load 98.0 kg, Time 30.0 sec	27600 psi @Load 216 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	75.0 MPa	10900 psi	50 mm/min; ISO 527-2
Elongation at Break	6.0 %	6.0 %	Nominal, 50mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Modulus of Elasticity	7.00 GPa	1020 ksi	ISO 527-2
Izod Impact, Notched (ISO)	3.50 kJ/m <sup>2</sup> @Temperature -30.0 °C	1.67 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/A
	3.50 kJ/m <sup>2</sup> @Temperature 23.0 °C	1.67 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup> @Temperature -30.0 °C	26.2 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	5.50 J/cm <sup>2</sup> @Temperature 23.0 °C	26.2 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm <sup>2</sup> @Temperature -30.0 °C	1.43 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	0.350 J/cm <sup>2</sup> @Temperature 23.0 °C	1.67 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	2750 MPa @Strain <=0.5 %	399000 psi @Strain <=0.5 %	ISO 899-1