

BASF Ultraform® N2720 M63 30% Mineral Filled POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Mineral Filled

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-N2720-M63-30-Mineral-Filled-POM.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.900 g/cc	0.0235 - 0.0325 lb/in ³	
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Water Absorption	0.90 %	0.90 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23°C; 50% RH; 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 ² @Temperature -30.0 °C	1.67 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	3.50 kJ/m ² @Temperature 23.0 °C	1.67 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	5.50 J/cm ² @Temperature -30.0 °C	26.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	2750 MPa	399000 psi	ISO 899-1
	@Strain <=0.500 %	@Strain <=0.500 %	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C	25.0 µin/in-°F	DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	166 °C	331 °F	DIN 53765
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75-2
Vicat Softening Point	155 °C	311 °F	ISO 306
Decomposition Temperature	>= 240 °C	>= 464 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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	4.0	4.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.2	4.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	43.0 kV/mm	1090 kV/in	IEC 60243-1
Dissipation Factor	0.0050	0.0050	IEC 60250

Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	Comments
	0.0070	0.0070	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	Test solution A; IEC 60112
	600 V	600 V	Test solution B; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	200 °C	392 °F	Hopper Throat
Zone 1	205 °C	401 °F	Feed zone
Zone 2	205 °C	401 °F	Compression
Zone 3	210 °C	410 °F	Metering-zone
Zone 4	210 °C	410 °F	Nozzle
Melt Temperature	190 - 230 °C	374 - 446 °F	Injection-molding
	210 °C	410 °F	Optimal
Mold Temperature	60.0 - 120 °C	140 - 248 °F	Injection-molding
	100 °C	212 °F	Optimal
Drying Temperature	100 °C	212 °F	
Dry Time	3 hour	3 hour	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Ignition Temperature	320 - 340°C	ASTM D1929
Peripheral screw speed	<0.3 m/s	
Primary Processing Technique	Injection Molding	

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