

BASF Ultraform® N2770 K POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Description: Is a POM, injection-molding grade with improved wear characteristics for sliding elements. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-N2770-K-POM.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.900 g/cc	0.0235 - 0.0325 lb/in ³	
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ISO 2577
Melt Flow	10.65 g/10 min @Load 2.16 kg, Temperature 190 °C	10.65 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	140 MPa @Load 36.5 kg, Time 30.0 sec	20300 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	26 %	26 %	ISO 527-2
Elongation at Yield	8.5 %	8.5 %	ISO 527-2
Modulus of Elasticity	2.80 GPa	406 ksi	ISO 527-2
Charpy Impact Unnotched	15.0 J/cm ² @Temperature -30.0 °C	71.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	15.0 J/cm ² @Temperature 23.0 °C	71.4 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

Mechanical Properties	0.400 J/cm ² Metric	1.90 ft-lb/in ² English	Comments _A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	1400 MPa @Strain <=0.500 %	203000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C @Temperature 23.0 - 55.0 °C	61.1 µin/in-°F @Temperature 73.4 - 131 °F	DIN 53752
Melting Point	166 °C	331 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75-2
Vicat Softening Point	150 °C	302 °F	ISO 306
Decomposition Temperature	>= 240 °C	>= 464 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	3.8 @Frequency 100 Hz	3.8 @Frequency 100 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 1.00e+6 Hz	0.0050 @Frequency 1.00e+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

Processing Properties	Metric	English	Comments
Processing Temperature	200 °C	392 °F	Hopper Throat
Zone 1	200 °C	392 °F	Feed zone
Zone 2	200 °C	392 °F	Compression
Zone 3	200 °C	392 °F	Metering-zone
Zone 4	200 °C	392 °F	Nozzle
Melt Temperature	200 °C	392 °F	Optimal
	190 - 230 °C	374 - 446 °F	Injection-molding
Mold Temperature	60.0 - 120 °C	140 - 248 °F	Injection-molding
	90.0 °C	194 °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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