

## BASF Ultraform® N2640 E2 POM

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

### Material Notes:

Description: Is a POM + MBS, elastomer-modified injection-molding grade with enhanced toughness and high weld line strength. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultraform-N2640-E2-POM.php](http://www.lookpolymers.com/polymer_BASF-Ultraform-N2640-E2-POM.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.90 %	0.90 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ISO 2577
Melt Flow	6.8 g/10 min @Load 2.16 kg, Temperature 190 °C	6.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	105 MPa @Load 36.5 kg, Time 30.0 sec	15200 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527-2
Elongation at Break	50 %	50 %	Nominal, 50 mm/min; ISO 527-2
Elongation at Yield	7.8 %	7.8 %	50 mm/min; ISO 527-2
Modulus of Elasticity	2.20 GPa	319 ksi	ISO 527-2
Charpy Impact, Notched	0.650 J/cm <sup>2</sup> @Temperature -30.0 °C	3.09 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	0.900 J/cm <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
	130 µm/m-°C	72.2 µin/in-°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @Temperature 23.0 - 99.0 °C	English @Temperature 73.4 - 198 °F	DIN 53752 Comments
Melting Point	166 °C	331 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ISO 75-2
Vicat Softening Point	140 °C	284 °F	ISO 306
Decomposition Temperature	>= 240 °C	>= 464 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	42.0 kV/mm	1070 kV/in	IEC 60243-1
Comparative Tracking Index	0.0030	0.0030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0080	0.0080	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 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	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

Processing Properties	Metric	English	Comments
	190 - 220 °C	374 - 428 °F	Injection-molding
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection-molding
	80.0 °C	176 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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