

## BASF Ultraform® N2640 Z2 POM + PUR

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced, Impact Grade

### Material Notes:

Description: Elastomer-modified injection molding grade with high impact strength for clips, snap and fastening elements, and also for components subject to impact stress. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultraform-N2640-Z2-POM-PUR.php](http://www.lookpolymers.com/polymer_BASF-Ultraform-N2640-Z2-POM-PUR.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.850 g/cc	0.0235 - 0.0307 lb/in <sup>3</sup>	
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	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	9.59 g/10 min @Load 2.16 kg, Temperature 190 °C	9.59 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa @Load 36.5 kg, Time 30.0 sec	16000 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	45 %	45 %	50 mm/min, Nominal; ISO 527-1/-2
Elongation at Yield	12 %	12 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-1/-2
Charpy Impact Unnotched	23.0 J/cm <sup>2</sup> @Temperature -30.0 °C	109 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
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

Mechanical Properties	Metric	English	Comments
	MPa/cm <sup>2</sup>	lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 µm/m-°C	72.2 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	167 °C	333 °F	ISO 11357-1/-3
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ISO 75-1/-2
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 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.014	0.014	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	Test Solution A; 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
Mold Temperature	60.0 °C	140 °F	Optimal
	60.0 - 80.0 °C	140 - 176 °F	Injection molding
Drying Temperature	100 °C	212 °F	
Dry Time	3 hour	3 hour	

Descriptive Properties	Value	Comments
Color	Black	
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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