

BASF Ultraform® N2644 Z9 POM + PUR

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

Material Notes:

Description: Elastomer modified injection molding grade for applications requiring low modulus. Good acoustic damping. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-N2644-Z9-POM-PUR.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.850 g/cc	0.0235 - 0.0307 lb/in ³	
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ISO 2577
Linear Mold Shrinkage, Transverse	0.0148 cm/cm	0.0148 in/in	ISO 2577
Melt Flow	15.24 g/10 min @Load 2.16 kg, Temperature 190 °C	15.24 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	30.0 MPa @Load 13.5 kg, Time 30.0 sec	4350 psi @Load 29.7 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	22.0 MPa	3190 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	50 %	50 %	50 mm/min, Nominal; ISO 527-1/-2
Elongation at Yield	25 %	25 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	0.700 GPa	102 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	1400 J/cm ²	700 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C	77.8 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	164 °C	327 °F	ISO 11357-1/-3
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °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+11 ohm-cm	1.00e+11 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	5.0	5.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.026	0.026	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
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.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China