

BASF Ultraform® N2650 Z4 POM + PUR

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

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-N2650-Z4-POM-PUR.php

Physical Properties	Metric	English	Comments
Bulk Density	0.850 g/cc	0.0307 lb/in ³	
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62
Melt Flow	9.45 g/10 min @Load 2.16 kg, Temperature 190 °C	9.45 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527-1/-2
Elongation at Break	40 %	40 %	50 mm/min, Nominal; ISO 527-1/-2
Elongation at Yield	16 %	16 %	50 mm/min; ISO 527-1/-2
Tensile Modulus	1.50 GPa	218 ksi	ISO 527-1/-2
Charpy Impact Unnotched	27.0 J/cm ² @Temperature -30.0 °C	128 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.50 J/cm ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Tensile Creep Modulus, 1000 hours	950 MPa @Strain <=0.500 %	138000 psi @Strain <=0.500 %	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 $^{\circ}\text{C}$	@Temperature 73.4 - 131 $^{\circ}\text{F}$	
Melting Point	167 $^{\circ}\text{C}$	333 $^{\circ}\text{F}$	ISO 11357-1/-3
Maximum Service Temperature, Air	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 $^{\circ}\text{C}$	176 $^{\circ}\text{F}$	ISO 75-1/-2
Decomposition Temperature	≥ 240 $^{\circ}\text{C}$	≥ 464 $^{\circ}\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	4.2	4.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.017	0.017	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 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	Hopper Throat
Zone 1	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	Feed zone
Zone 2	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	Compression
Zone 3	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	Metering-zone
Zone 4	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	Nozzle
Melt Temperature	200 $^{\circ}\text{C}$	392 $^{\circ}\text{F}$	Optimal
	190 - 215 $^{\circ}\text{C}$	374 - 419 $^{\circ}\text{F}$	Injection molding
Mold Temperature	60.0 $^{\circ}\text{C}$	140 $^{\circ}\text{F}$	Optimal
	60.0 - 80.0 $^{\circ}\text{C}$	140 - 176 $^{\circ}\text{F}$	Injection molding
Drying Temperature	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	

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

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