

BASF Ultraform N 2640 Z6 UNC POM

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Impact Modified

Material Notes:

Ultraform N 2640 Z6 UNC is an elastomer-modified injection molding POM grade with excellent impact strength.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-N-2640-Z6-UNC-POM.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Water Absorption	1.1 %	1.1 %	ISO 62
Moisture Absorption at Equilibrium	0.25 %	0.25 %	23°C/50% R.H.; ISO 62
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	ASTM Data; MD
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO Data
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO Data
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 190 °C	4.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.0 MPa	5370 psi	50mm/min; ISO 527
	37.0 MPa	5370 psi	2 in/min; ASTM Test
Elongation at Break	>= 50 %	>= 50 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	17 %	17 %	50mm/min; ISO 527
	17 %	17 %	2 in/min; ASTM Test
Tensile Modulus	1.30 GPa	189 ksi	1mm/min; ISO 527
	1.36 GPa	197 ksi	ASTM Test
Flexural Modulus	1.32 GPa	191 ksi	ASTM Test
Izod Impact, Notched	0.590 J/cm @Temperature -40.0 °C	1.11 ft-lb/in @Temperature -40.0 °F	ASTM Test
	1.55 J/cm @Thickness 3.17 mm	2.90 ft-lb/in @Thickness 0.125 in	ASTM Test

Charpy Impact Unnotched Mechanical Properties	NB Metric	NB English	ISO 179 Comments
	NB	NB	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	825 MPa	120000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	575 MPa	83400 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Parallel to Flow	130 µm/m-°C	72.2 µin/in-°F	ISO 11359
Melting Point	166 °C	331 °F	10 K/min
	166 °C	331 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	129 °C	264 °F	ASTM Test
	130 °C	266 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75
	71.0 °C	160 °F	ASTM Test
Vicat Softening Point	120 °C	248 °F	(50 °C/h / 50N) - B/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 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
	4.3	4.3	

Dielectric Constant Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	IEC 60250 Comments
	4.5	4.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	IEC 60243-1
Dissipation Factor	0.010	0.010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.025	0.025	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	Yes	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	

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