

BASF Ultraform N 2310P Q600 POM

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

Material Notes:

Ultraform N2310P Q600 is a general-purpose injection molding POM grade containing special lubricant. Low frictional coefficient giving extremely low wear with otherwise unaltered mechanical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-N-2310P-Q600-POM.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.; ISO 62
Melt Flow	7.5 g/10 min @Load 2.16 kg, Temperature 190 °C	7.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa	21000 psi	IEC 2039
Tensile Strength, Yield	61.0 MPa	8850 psi	50mm/min; ISO 527
Elongation at Break	31 %	31 %	ISO 527
Elongation at Yield	9.3 %	9.3 %	ISO 527
Modulus of Elasticity	2.60 GPa	377 ksi	SIO 527
Izod Impact, Notched	0.550 J/cm @Temperature -30.0 °C	1.03 ft-lb/in @Temperature -22.0 °F	ISO 180/A
	0.530 J/cm @Thickness 584 mm	0.993 ft-lb/in @Thickness 23.0 in	ISO 180/A
Charpy Impact Unnotched	20.0 J/cm ²	95.2 ft-lb/in ²	ISO 179
	18.0 J/cm ² @Temperature -30.0 °C	85.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179

Tensile Creep Modulus 1000 hours Mechanical Properties	1300 MPa Metric	189000 psi English	ISO 899 Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	11.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 23.0 - 55.0 $^{\circ}\text{C}$	6.11 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 73.4 - 131 $^{\circ}\text{F}$	DIN 53752
Melting Point	166 $^{\circ}\text{C}$	331 $^{\circ}\text{F}$	DIN 53765
Maximum Service Temperature, Air	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 $^{\circ}\text{C}$	203 $^{\circ}\text{F}$	ISO 75
Vicat Softening Point	150 $^{\circ}\text{C}$	302 $^{\circ}\text{F}$	(50 $^{\circ}\text{C}/\text{h}$ / 50N) - B/50; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	3.8 @Frequency 100 Hz	3.8 @Frequency 100 Hz	IEC 60250
	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	IEC 60250
	0.0050 @Frequency 1.00e+6 Hz	0.0050 @Frequency 1.00e+6 Hz	IEC 60250
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
Melt Temperature	190 - 230 $^{\circ}\text{C}$	374 - 446 $^{\circ}\text{F}$	
Mold Temperature	60.0 - 120 $^{\circ}\text{C}$	140 - 248 $^{\circ}\text{F}$	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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