

BASF Ultraform H 2320 006 Q600 POM

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

Material Notes:

Ultraform H2320 006 is a high-molecular-weight grade of POM for injection molding. It conforms to FDA requirements of 21 CFR 177.2470.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-H-2320-006-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
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	ASTM Data; MD
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ISO Data
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ISO Data
Melt Flow	2.9 g/10 min @Load 2.16 kg, Temperature 190 °C	2.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	64.0 MPa	9280 psi	50mm/min; ISO 527
	64.0 MPa	9280 psi	2 in/min; ASTM Test
	33.0 MPa @Temperature 80.0 °C	4790 psi @Temperature 176 °F	ISO Data
Elongation at Break	30 %	30 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	11 %	11 %	50mm/min; ISO 527
	11 %	11 %	2 in/min; ASTM Test
	10 % @Temperature 80.0 °C	10 % @Temperature 176 °F	ISO Data
Tensile Modulus	2.59 GPa	376 ksi	ASTM Test
	2.60 GPa	377 ksi	1mm/min; ISO 527
Flexural Modulus	2.45 GPa	355 ksi	ASTM Test

Mechanical Properties	2.60 GPa Metric	377 ksi English	ISO Data Comments
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.801 J/cm	1.50 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO Test
	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact Unnotched	26.0 J/cm ²	124 ft-lb/in ²	ISO 179
	20.0 J/cm ²	95.2 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	1800 MPa	261000 psi	ISO 899
Tensile Creep Modulus, 1000 hours	1300 MPa	189000 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 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)	154 °C	309 °F	ASTM Test
	156 °C	313 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75
	96.0 °C	205 °F	ASTM Test
Vicat Softening Point	150 °C	302 °F	(50 °C/h / 50N) - B/50; ISO 306
	HB	HB	

Thermal Properties	Metric	English	Comments
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	15 %	15 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	40.0 kV/mm	1020 kV/in	IEC 60243-1
Comparative Tracking Index	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0050	0.0050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	200 °C	392 °F	Injection molding
Mold Temperature	110 °C	230 °F	Injection molding
Injection Velocity	90.0 mm/sec	3.54 in/sec	Injection molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
FDA	21 CFR 177.1500	
Form	Pellets	
Impact Modified	No	

Descriptive Properties	Value	Comments
Primary Processing Technique	Extrusion	
Processing	Injection Molding	
	Other Extrusion	
Special characteristic	Release agent	

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