BASF Ultraform H 4320 Q600 POM

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

Material Notes:

Ultraform H4320 Q600 is an extrusion POM high molecular weight grade. This grade enables high extrusion rates with thick-walled product. It also exhibits high thermal stability and a low tendency to discolor.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultraform-H-4320-Q600-POM.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in³	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	26 g/10 min @Load 2.16 kg, Temperature 190 °C	26 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	125 MPa	18100 psi	358/30; ISO 2039-1
Tensile Strength, Yield	63.0 MPa	9140 psi	50mm/min; ISO 527
Elongation at Break	31 %	31 %	50mm/min; ISO 527
Elongation at Yield	10 %	10 %	50mm/min; ISO 527
Modulus of Elasticity	2.60 GPa	377 ksi	ISO 527
Izod Impact, Notched (ISO)	6.50 kJ/m²	3.09 ft-lb/in²	ISO 180/A
	6.00 kJ/m² @Temperature -30.0 °C	2.86 ft-lb/in² @Temperature -22.0 °F	ISO 180/A
Charpy Impact Unnotched	25.0 J/cm²	119 ft-lb/in²	ISO 179
	18.0 J/cm² @Temperature -30.0 °C	85.7 ft-lb/in² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.600 J/cm²	2.86 ft-lb/in²	ISO 179
	0.550 J/cm² @Temperature -30.0 °C	2.62 ft-lb/in² @Temperature -22.0 °F	ISO 179
Tensile Creep Modulus, 1000 hours	1300 MPa	189000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 µm/m-°C @Temperature 23.0 - 55.0 °C	6.67 µin/in-°F @Temperature 73.4 - 131 °F	DIN 53752
Melting Point	166 °C	331 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75
Vicat Softening Point	150 °C	302 °F	(50 °C/h / 50N) - B/50; ISO 306

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 @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	IEC 60112
	600 V	600 V	Test Solution B; ICE 60112

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 230 °C	374 - 446 °F	Injection molding
Mold Temperature	60.0 - 120 °C	140 - 248 °F	

Descriptive Properties	Value	Comments
Color	Natural	

Descriptive Properties	Value	Comments
Commercial Status	Active America	
FDA	21 CFR 177.1500	
Form	Pellets	
Impact Modified	No	
NSF Std. 51	Yes	
NSF Std. 61	Yes	
Primary Processing Technique	Extrusion	
Processing	Injection Molding	
	Other Extrusion	
	Profile Extrusion	
	Sheet Extrusion	

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