BASF Ultraform S 1320 0021 UNC POM

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

Material Notes:

Ultraform S1320 0021 UNC is an easy flowing, rapidly freezing injection molding POM grade with enhanced stiffness and heat distortion resistance. It is highly stabilized to resist aggressive fuels, including hot diesel fuel.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultraform-S-1320-0021-UNC-POM.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 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	12.9 g/10 min @Load 2.16 kg, Temperature 190 °C	12.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	155 MPa	22500 psi	ISO 2039
Tensile Strength	6.37 MPa @Time 1.81e+7 sec	925 psi @Time 5040 hour	Storage in biodiesel DIN 14214 at +140°C
	6.37 MPa @Time 1.04e+7 sec	925 psi @Time 2880 hour	Storage in biodiesel DIN 14214 at +140°C
	6.37 MPa @Time 2.59e+6 sec	925 psi @Time 720 hour	Storage in biodiesel DIN 14214 at +140°C
Tensile Strength, Yield	66.0 MPa	9570 psi	50mm/min; ISO 527
Elongation at Break	30 %	30 %	ISO 527
Elongation at Yield	9.0 %	9.0 %	ISO 527
Modulus of Elasticity	3.00 GPa	435 ksi	ISO 527
Izod Impact, Notched (ISO)	5.50 kJ/m²	2.62 ft-lb/in²	ISO 2039
Charpy Impact Unnotched	17.0 J/cm²	80.9 ft-lb/in²	ISO 179
	17.0 J/cm² @Temperature -30.0 °C	80.9 ft-lb/in² @Temperature -22.0 °F	ISO 179

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.550 J/cm²	2.62 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	1450 MPa	210000 psi	ISO 899

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	11.0 µm/m-°C @Temperature 23.0 - 55.0 °C	6.11 µin/in-°F @Temperature 73.4 - 131 °F	DIN 53752
Melting Point	171 °C	340 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °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+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.7 @Frequency 100 Hz	3.7 @Frequency 100 Hz	IEC 60250
	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0020 @Frequency 100 Hz	0.0020 @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			

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

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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