

BASF Ultraform® N2320 U035 POM

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

Material Notes:

Description: Is a POM, UV-stabilized injection-molding grade. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-N2320-U035-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 %	Saturation; ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C; 50% RH; ISO 62
Melt Flow	8.8 g/10 min @Load 2.16 kg, Temperature 190 °C	8.8 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa @Load 36.5 kg, Time 30.0 sec	18900 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	62.0 MPa	8990 psi	50 mm/min; ISO 527-2
Elongation at Break	34 %	34 %	ISO 527-2
Elongation at Yield	12 %	12 %	ISO 527-2
Modulus of Elasticity	2.30 GPa	334 ksi	ISO 527-2
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	21.0 J/cm ² @Temperature -30.0 °C	99.9 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	25.0 J/cm ² @Temperature 23.0 °C	119 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Mechanical Properties	Metric /cm ²	English lb/in ²	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 113/1EA
Tensile Creep Modulus, 1000 hours	900 MPa	131000 psi	ISO 899-1

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	167 °C	333 °F	DIN 53765
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75-2
Vicat Softening Point	150 °C	302 °F	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+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
	3.9 @Frequency 100 Hz	3.9 @Frequency 100 Hz	IEC 60250
Dielectric Strength	36.0 kV/mm	914 kV/in	IEC 60243-1
Dissipation Factor	0.0030 @Frequency 100 Hz	0.0030 @Frequency 100 Hz	IEC 60250
	0.0060 @Frequency 1.00e+6 Hz	0.0060 @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
Processing Temperature	200 °C	392 °F	Hopper Throat

Zone 1 Processing Properties	205 °C Metric	401 °F English	Feed zone Comments
Zone 2	205 °C	401 °F	Compression
Zone 3	210 °C	410 °F	Metering-zone
Zone 4	210 °C	410 °F	Nozzle
Melt Temperature	190 - 230 °C	374 - 446 °F	Injection-molding
Mold Temperature	60.0 - 120 °C	140 - 248 °F	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Peripheral screw speed	<0.3 m/s	
Primary Processing Technique	Injection Molding	

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