

BASF Ultraform® E 3120 BM POM

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

Material Notes:

Description: Is a POM, high-molecular grade for extrusion blow molding of hollow parts. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultraform-E-3120-BM-POM.php

Physical Properties	Metric	English	Comments
Bulk Density	0.850 g/cc	0.0307 lb/in ³	
Density	1.39 g/cc	0.0502 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	1.112 g/10 min @Load 2.16 kg, Temperature 190 °C	1.112 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	63.0 MPa	9140 psi	50 mm/min; ISO 527-2
Elongation at Break	25 %	25 %	50mm/min; ISO 527-2
Elongation at Yield	9.0 %	9.0 %	ISO 527-2
Modulus of Elasticity	2.45 GPa	355 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	20.0 J/cm ² @Temperature -30.0 °C	95.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	23.0 J/cm ² @Temperature 23.0 °C	109 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	0.600 J/cm ²	2.86 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/1eA Comments
	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Creep Modulus, 1000 hours	1050 MPa	152000 psi	ISO 899-1
	@Strain <=0.500 %	@Strain <=0.500 %	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	DIN 53752
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	165 °C	329 °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	145 °C	293 °F	ISO 306
Decomposition Temperature	>= 240 °C	>= 464 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0050	0.0050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
Dielectric Strength 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 - 210 °C	374 - 410 °F	Injection-molding
Mold Temperature	90.0 - 120 °C	194 - 248 °F	

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Ignition Temperature	320-340 °C	ASTM D1929
Primary Processing Technique	Extrusion and Blow Molding	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China