

Ultraform® E3120 BM

Acetal (POM) Copolymer

BASF Corporation

Message:

Material with high melt strength, -stiffness and high stretchability for producing extrusion blow-molded hollow objects.

General Information			
UL YellowCard	E41871-233585		
Features	Copolymer		
	Good Melt Strength		
	Good Stretchability		
	High Stiffness		
Uses	Blow Molding Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Granules		
Processing Method	Blow Molding		
	Extrusion		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Apparent Density	0.85	g/cm ³	
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	0.800	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	135	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2450	MPa	ISO 527-2
Tensile Stress (Yield)	63.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/50
Nominal Tensile Strain at Break	25	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	230	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	°C	ISO 75-2/A
Melting Temperature	164	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.2E-4	cm/cm/°C	ISO 11359-2
Maximum Service Temperature - short cycle operation	100	°C	
ISO Type	POM-K, B-GNR, 01-002		ISO 9988-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.80		IEC 60250
Dissipation Factor (1 MHz)	5.0E-3		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

