Ultraform® E3120 BM

Acetal (POM) Copolymer BASF Corporation

Product Description

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

Abbreviated designation according to ISO 1043: POM

Designation according to ISO 9988-1: POM-K, B-GNR, 01-002

Ultraform® is supplied in the form of granules having a bulk density of approx. 850 g/l. Standards packs are the 25 kg PE bag and the 1000 kg Oktabin (octagonal container). Ultraform® is not subject to change when it is stored in dry, ventilated rooms. After relatively long storage (>1 year) or when handling material from previously opened containers, preliminary drying is recommended in order to remove any moisture which has been absorbed

Ultraform® is not a hazardous material as defined in the German Ordinance on Hazardous Materials. If Ultraform® is processed properly little or no formaldehyde occurs in the region of the processing machine. Measures should be taken to ensure ventilation and venting of the work area, preferably by means of an extraction hood over the barrel unit. Ultraform® decomposes when subjected to excessive heat. The decomposition products formed in this case consist almost exclusively of formaldehyde, a gas which has a pungent smell even at very low concentrations and irritates the mucous membranes. Decomposition can rapidly result in the build-up of a high gas pressure in the barrel of the processing unit. If the die is sealed there may be a sudden release of pressure via the filling hopper.

Contamination of Ultraform® by thermoplastics that cause decomposition of polyacetals, e.g. PVC or plastics containing halogenated fire protection agents, must be avoided under all circumstances. Even small quantities can cause uncontrolled and rapid decomposition of Ultraform® during processing. Pellets and finished parts must not be allowed to come into contact with strong acids (especially concentrated hydrochloric acid) since they cause Ultraform® to decompose.

General	
Material Status	Commercial: Active
Availability	Europe
Uses	Blow Molding Applications
Forms	Granules
Processing Method	Blow Molding Extrusion
Resin ID (ISO 1043)	• POM

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hysical	Nominal Value Unit	Test Method
Density	1.41 g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	0.800 cm ³ /10min	ISO 1133
Water Absorption		ISO 62
24 hr, 23°C	0.80 %	
Equilibrium, 23°C, 50% RH	0.20 %	
lechanical	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
npact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	8.0 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	230 kJ/m²	ISO 179/1eU
ardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	135 MPa	ISO 2039-1
hermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	90.0 °C	
Melting Temperature	164 °C	ISO 11357-3
CLTE - Flow (23 to 55°C)	0.00012 cm/cm/°C	ISO 11359-2
Maximum Dynamic Service Temperature	100 °C	
lectrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohm·cm	IEC 60093
Relative Permittivity (1 MHz)	3.80	IEC 60250
Dissipation Factor (1 MHz)	0.0050	IEC 60250
Comparative Tracking Index (Solution A)	600 V	IEC 60112
lamma bility	Nominal Value Unit	Test Method

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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Ultraform® E3120 BM Acetal (POM) Copolymer BASF Corporation Notes Tuesday, December 15, 2009

¹ Typical properties: these are not to be construed as specifications.

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