Product Information

Ultraform®

N2640 E2

03/2016

POM + MBS

Product description

Elastomer modified injection molding grade with increased toughness and high welding line strength.

Abbreviated designation according to ISO 1043: POM-HI Designation according to ISO 9988-1: POM-K, M-GNPR, 02-001

Physical form and storage

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.

We create chemistry

Product safety

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.

Detailed safety and environmental information is contained in the Ultraform® brochure and the material safety data sheet. Both are available from the PlasticsPortal, www.plasticsportal.net, or the Ultra-Infopoint under phone +49-621-60-78780 or fax +49-621-60-78730.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

Ultraform[®] N2640 E2

Product Information

	BASF	
We	create chemistry	

Typical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾		
Properties					
Polymer abbreviation Density Water absorption, equilibrium in water at 23°C Moisture absorption, equilibrium 23°C/50% r.h.	ISO 1183 similar to ISO 62 similar to ISO 62	- kg/m³ % %	POM + MBS 1340 0.9 0.20		
Processing					
Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Melting temperature, DSC Melt volume-flow rate MVR at 190 °C and 2.16 kg Melt temperature, injection moulding Mould temperature, injection moulding Molding shrinkage (parallel) Molding shrinkage (normal)	ISO 11357-1/-3 ISO 1133 - ISO 2577, 294-4 ISO 2577, 294-4	- °C cm³/10min °C °C % %	M 166 6 190 - 220 60 - 80 1.90 1.90		
Flammability					
Automotive materials (thickness d >= 1mm) ³⁾	FMVSS 302	-	+		
Mechanical properties					
Tensile modulus Yield stress, 50 mm/min Yield strain, 50 mm/min Nominal strain at break, 50 mm/min Charpy notched impact strength (23°C) Charpy notched impact strength (-30°C) Ball indentation hardness at 358 N and 30 s	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eA ISO 179/1eA ISO 2039-1	MPa MPa % kJ/m² kJ/m² MPa	2200 50 7.8 50 9 6.5 105		
Thermal properties					
HDT A (1.80 MPa) Max. service temperature (short cycle operation) Coefficient of linear thermal expansion, longitudinal (23-55)°C	ISO 75-1/-2 - ISO 11359-1/-2	°C °C E-6/K	80 100 130		
Electrical properties					
Relative permittivity (1 MHz) Dissipation factor (1 MHz) Volume resistivity Surface resistivity Electric strength K20/P50 Comparative tracking index, CTI, test liquid A	IEC 60250 IEC 60250 IEC 60093 IEC 60093 IEC 60243-1 IEC 60112	- E-4 Ohm*m Ohm kV/mm -	3.5 80 1E12 1E15 85 600		

Footnotes

If product name or properties don't state otherwise.
The asterisk symbol '*' signifies inapplicable properties.
+ = passed

BASF SE

67056 Ludwigshafen, Germany