

Product description

Rapidly solidifying standard grade for injection molding.

Abbreviated designation according to ISO 1043: POM
Designation according to ISO 9988-1: POM-K, M-GNR, 03-002

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.

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.

Processing Data Sheet

	Test method	Unit	Values
Properties			
Polymer abbreviation	-	-	POM
Density	ISO 1183	kg/m ³	1400
Melt volume rate MVR 190 °C/2.16 kg	ISO 1133	cm ³ /10min	7.5
Drying			
Moisture, max.	-	%	0.2
Dryer temperature ¹⁾	-	°C	100
Drying time	-	h	3
Injection molding			
Melt temperature range	-	°C	190 - 230
Melt temperature, optimal	-	°C	200
Mold temperature range	-	°C	60 - 120
Mold temperature, optimal	-	°C	90
Residence time, max.	-	min	10
Machine Settings			
Temperature hopper throat	-	°C	200
Cylinder temperature 1 (feed zone)	-	°C	200
Cylinder temperature 2 (compression)	-	°C	200
Cylinder temperature 3 (metering-zone, in front of the screw)	-	°C	200
Cylinder temperature 4 (nozzle)	-	°C	200
Peripheral screw speed	-	m/s	0.3
Shrinkage			
Molding shrinkage (parallel)	ISO 294-4	%	2.10
Molding shrinkage (normal)	ISO 294-4	%	2.10

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Footnotes

1) The granules or pellets in their original packaging can generally be processed without any special preliminary treatment. However, granules or pellets which have become moist due to prolonged or incorrect storage must be dried in suitable dryers, e.g. dehumidifying dryers.

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