# Ultraform® H 2320 006

Acetal (POM) Copolymer

# **BASF** Corporation

# Technical Data

#### Product Description

High-molecular-weight grade with	somewhat increased flowability for injection molding of relatively thick-walled moldings.
General	
Material Status	Commercial: Active
Literature <sup>1</sup>	<ul> <li>Processing (English)</li> <li>Technical Datasheet (English)</li> </ul>
UL Yellow Card <sup>2</sup>	<ul> <li>E36632-531676</li> <li>E41871-233585</li> <li>E36632-531675</li> </ul>
Search for UL Yellow Card	BASF Corporation     Ultraform®
Availability	Asia Pacific     Europe
Features	High Molecular Weight
Uses	Thick-walled Parts
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Forms	Granules
Processing Method	Extrusion     Injection Molding
Multi-Point Data	<ul> <li>Isochronous Stress vs. Strain (ISO 11403-1)</li> <li>Isothermal Stress vs. Strain (ISO 11403-1)</li> <li>Scecant Modulus vs. Strain (ISO 11403-1)</li> <li>Secant Modulus vs. Strain (ISO 11403-1)</li> <li>Specific Heat vs. Temperature (ISO 11403-2)</li> <li>Viscosity vs. Shear Rate (ISO 11403-2)</li> <li>Specific Volume vs Temperature (ISO 11403-2)</li> </ul>
Resin ID (ISO 1043)	• POM

Physical	Nominal Value Unit	Test Method
Density	1.40 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.90 cm³/10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	2.1 %	
Flow	2.1 %	
Water Absorption		ISO 62
Saturation, 23°C	0.80 %	
Equilibrium, 23°C, 50% RH	0.20 %	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2600 MPa	ISO 527-2
Tensile Stress (Yield)	64.0 MPa	ISO 527-2/50
Tensile Strain (Yield)	11 %	ISO 527-2/50
Nominal Tensile Strain at Break	30 %	ISO 527-2/50
Tensile Creep Modulus <sup>4</sup> (1000 hr)	1300 MPa	ISO 899-1
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	5.5 kJ/m²	
23°C	6.0 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	200 kJ/m <sup>2</sup>	
23°C	260 kJ/m <sup>2</sup>	
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	135 MPa	ISO 2039-1

<sup>1</sup> of 3

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Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	95.0 °C	
Melting Temperature	166 °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	
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
Additional Information	Nominal Value Unit	Test Method
Automotive Materials (> 1.00 mm)	Pass	FMVSS 302
ISO Type	POM-K, M-GNR, 01-002	ISO 9988-1

Injection	Nominal Value Unit
Drying Temperature	100 °C
Drying Time	3.0 hr
Suggested Max Moisture	0.20 %
Hopper Temperature	200 °C
Rear Temperature	200 °C
Middle Temperature	200 °C
Front Temperature	200 °C
Nozzle Temperature	200 °C
Processing (Melt) Temp	190 to 230 °C
Mold Temperature	60.0 to 120 °C
Screw Speed	< 300 mm/sec
njection Notes	
Residence Time: <10 min	

Residence Time: <10 min.

Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> strain <= 0,5%, 23°C



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## Where to Buy

### Supplier

BASF Corporation Wyandotte, MI USA Telephone: 800-527-TECH Web: http://www.plasticsportal.com/usa

#### Distributor

## ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country. Telephone: +49-40-78105-0

Web: http://www.albis.com/

Availability: Algeria, Austria, Belgium, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, United Kingdom

#### Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country. Telephone: +32-11-57-95-57

Web: http://www.ultrapolymers.com/

Availability: Bosnia and Herzegovina, Croatia, Ireland, Italy, Macedonia, Portugal, Serbia, Spain, Turkey, United Kingdom



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