

# Ultraform® H2320 004

Acetal (POM) Copolymer

BASF Corporation

## Product Description

High-molecular-weight grade for the extrusion of small thin-walled tubes and also of panels.

## General

Material Status	• Commercial: Active
Availability	• Europe
Features	• High Molecular Weight
Uses	• Sheet • Tubing
RoHS Compliance	• RoHS Compliant
Forms	• Granules
Processing Method	• Extrusion • Injection Molding
Multi-Point Data	• Isochronous Stress vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2) • Isothermal Stress vs. Strain (ISO 11403-1) • Specific Heat vs. Temperature (ISO 11403-2) • Secant Modulus vs. Strain (ISO 11403-1) • Specific Volume vs. Temperature (ISO 11403-2)
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)	2.20	cm <sup>3</sup> /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2600	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	64.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	11	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	32	%	ISO 527-2/50
Tensile Creep Modulus (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/m <sup>2</sup>	
23°C	6.0	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	210	kJ/m <sup>2</sup>	
23°C	250	kJ/m <sup>2</sup>	

Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	130	MPa	ISO 2039-1

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	95.0	°C	
Melting Temperature (DSC)	166	°C	ISO 3146
CLTE - Flow (23 to 55°C)	0.00012	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohm·cm	IEC 60093
Relative Permittivity (23°C, 1 MHz)	3.80		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.0050		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.60 mm)	HB		UL 94

## Additional Information

The value listed as Melting Temperature (DSC), ISO 3146, was tested in accordance with ISO 3146.  
Maximum Service Temperature (Short Cycle Operation): 100°C  
POM-K, E-GNR, 01-002

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, December 15, 2009

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	60.0 to 100	°C

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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