

# Ultraform® N 2320 003

Acetal (POM) Copolymer

BASF Corporation

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Rapidly solidifying standard grade for injection molding.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E36632-531676</a> • <a href="#">E36632-531682</a> • <a href="#">E41871-233594</a>
Search for UL Yellow Card	• <a href="#">BASF Corporation</a> • <a href="#">Ultraform®</a>
Availability	• Asia Pacific • Europe
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Appearance	• Black • Natural Color • White
Forms	• Granules
Processing Method	• Injection Molding
Multi-Point Data	• Isochronous Stress vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Specific Heat vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (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)	7.50 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)	2700 MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	65.0 MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	9.4 %	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	27 %	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	1400 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	190 kJ/m <sup>2</sup>	
23°C	210 kJ/m <sup>2</sup>	

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 358/30)	145 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	100 °C	
Melting Temperature	167 °C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.1E-4 cm/cm/°C	ISO 11359-2
Maximum Service Temperature - Short Cycle Operation	100 °C	



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Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+13 ohm	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)	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)	+	FMVSS 302
ISO Type	POM-K, M-GNR, 03-002	ISO 9988-1
Polymer Abbreviation	POM	
Injection	Nominal Value Unit	
Processing (Melt) Temp	190 to 230 °C	
Mold Temperature	60.0 to 120 °C	

## 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.

