

# Hostaform® C 13031

Acetal (POM) Copolymer  
Celanese Corporation

## Technical Data

### Product Description

Chemical abbreviation according to ISO 1043-1: POM  
Molding compound ISO 9988- POM-K, M-GNR, 04-002

POM copolymer

Easy flowing Injection molding type like C 13021, but with higher strength, rigidity and hardness over the entire permissible temperature range for HOSTAFORM; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation.

Fulfills EG-directive 2002/72/EU as well as the recommendation XXXIII for consumer goods of the BgVV,  
FDA compliant according to 21 CFR 177.2470

UL-registration for all colours and a thickness more than 1.5 mm as UL 94 HB; burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm.

Ranges of applications: For molded parts with higher requirements to strength, rigidity und hardness, ranges of applications with fuel contact.

FDA = Food and Drug Administration (USA)  
BgVV = Bundesinstitut für gesundheitlichen Verbraucherschutz und Veterin rmedizin  
UL = Underwriters Laboratories (USA)  
FMVSS = Federal Motor Vehicle Safety Standard (USA)

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet - ISO (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E113269-100968129</a> • <a href="#">E42337-234598</a>
Search for UL Yellow Card	• <a href="#">Celanese Corporation</a> • <a href="#">Hostaform®</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America • South America
Features	• Alkali Resistant • Fuel Resistant • Good Chemical Resistance • Hydrolysis Resistant • Medium Flow • Solvent Resistant
Agency Ratings	• BgVV Recommendation XXXIII • EU 2002/72/EG • FDA 21 CFR 177.2470
RoHS Compliance	• Contact Manufacturer
Multi-Point Data	• Isochronous Stress vs. Strain (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Viscosity vs. Shear Rate (ISO 11403-2)
Resin ID (ISO 1043)	• POM

Physical	Nominal Value Unit	Test Method
Density	1.41 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.8 %	
Flow	2.0 %	
Water Absorption (Saturation, 23°C)	0.65 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3050 MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	68.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	8.0 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	20 %	ISO 527-2/1A/50

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Mechanical	Nominal Value Unit	Test Method
Tensile Creep Modulus		ISO 899-1
1 hr	2750 MPa	
1000 hr	1450 MPa	
Flexural Modulus (23°C)	3000 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	6.0 kJ/m <sup>2</sup>	
23°C	6.7 kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	120 kJ/m <sup>2</sup>	
23°C	120 kJ/m <sup>2</sup>	
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	107 °C	
Melting Temperature <sup>4</sup>	170 °C	ISO 11357-3
CLTE - Flow	0.00011 cm/cm/°C	ISO 11359-2
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+14 ohm	IEC 60093
Volume Resistivity	1.0E+14 ohm·cm	IEC 60093
Electric Strength	35 kV/mm	IEC 60243-1
Relative Permittivity		IEC 60250
100 Hz	4.00	
1 MHz	4.00	
Dissipation Factor		IEC 60250
100 Hz	0.0020	
1 MHz	0.0050	
Comparative Tracking Index	600 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.50 mm	HB	
3.00 mm	HB	
Injection	Nominal Value Unit	
Drying Temperature	120 to 140 °C	
Drying Time	3.0 to 4.0 hr	
Suggested Max Moisture	0.15 %	
Hopper Temperature	20.0 to 30.0 °C	
Rear Temperature	170 to 180 °C	
Middle Temperature	180 to 190 °C	
Front Temperature	190 to 200 °C	
Nozzle Temperature	190 to 210 °C	
Processing (Melt) Temp	190 to 210 °C	
Mold Temperature	80.0 to 120 °C	
Injection Pressure	60.0 to 120 MPa	
Injection Rate	Slow-Moderate	
Holding Pressure	60.0 to 120 MPa	
Back Pressure	0.00 to 4.00 MPa	

## Injection Notes

Manifold Temperature: 190 to 210°C  
Zone 4 Temperature: 190 to 210°C  
Feed Temperature: 60 to 80°C

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## 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 IDES 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> 10°C/min

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## Where to Buy

### Supplier

#### **Celanese Corporation**

Florence, KY USA

**Telephone:** 800-833-4882

**Web:** <http://www.celanese.com/engineered-materials>

### Distributor

#### **Channel Prime Alliance**

**Telephone:** 800-247-8038

**Web:** <http://www.channelpa.com/>

**Availability:** North America

#### **Entec Polymers**

**Telephone:** 800-375-5440

**Web:** <http://www.entecpolymers.com/>

**Availability:** North America

#### **RESINEX Group**

*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

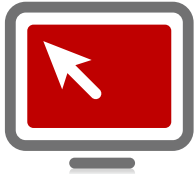
**Telephone:** +32-14-672511

**Web:** <http://www.resinex.com/>

**Availability:** Europe



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### Prospector Plastics Database - [www.ides.com/prospector](http://www.ides.com/prospector)

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– Birgit Elvardt Bader, Production Manager, Micotron

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**Automotive Plastics Search** – easily locate automotive approved plastics.

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– Kevin Chase, Owner & President, Chase Plastics



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