

Hostaform® S 27063

Acetal (POM) Copolymer

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Easy flowing elastomer-containing injection molding grade, moderate toughness
Chemical abbreviation according to ISO 1043-1: POM-HI, Molding compound ISO 9988- POM-K, M-GNPR, 05-001 POM copolymer, modified Easy flowing elastomer-containing injection molding type based on HOSTAFORM® C 27021; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than the basic type; high resistance to thermal and oxidative degradation. UL-registration in natural and a thickness more than 1.57 mm as UL 94 HB. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm thickness. Ranges of applications: For thin-walled molded parts with higher energy-absorbing capacity UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E42337-234626
Search for UL Yellow Card	• Celanese Corporation • Hostaform®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Impact Modifier • Mold Release
Features	• Impact Modified
Uses	• Automotive Applications
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) • Shear Stress vs. Shear Rate (ISO 11403-1) • Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value Unit	Test Method
Density	1.39 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	20 cm ³ /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.8 %	
Flow	1.9 %	
Water Absorption		ISO 62
Saturation, 23°C	0.65 %	
Equilibrium, 23°C, 50% RH	0.20 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2200 MPa	ISO 527-1/1A
Tensile Stress (Yield)	54.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	30 %	ISO 527-2/1A/50
Tensile Creep Modulus		ISO 899-1
1 hr	1850 MPa	
1000 hr	1050 MPa	
Flexural Modulus (23°C)	2100 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	6.0 kJ/m ²	
23°C	9.0 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	90 kJ/m ²	
23°C	140 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness ³	115 MPa	ISO 2039-1



Hostaform® S 27063

Acetal (POM) Copolymer

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	84.0 °C	ISO 75-2/A
Melting Temperature ⁴	166 °C	ISO 11357-3
CLTE - Flow	1.2E-4 cm/cm/°C	ISO 11359-2
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+13 ohms·cm	IEC 60093
Electric Strength	28 kV/mm	IEC 60243-1
Dielectric Constant		IEC 60250
100 Hz	4.20	
1 MHz	4.20	
Dissipation Factor		IEC 60250
100 Hz	5.0E-3	
1 MHz	0.015	
Comparative Tracking Index (CTI)	PLC 0	UL 746A
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.6 mm	HB	
3.2 mm	HB	
Injection	Nominal Value Unit	
Drying Temperature	100 to 120 °C	
Drying Time	3.0 to 4.0 hr	
Suggested Max Moisture	0.15 %	
Hopper Temperature	20 to 30 °C	
Injection Feed Temperature	60 to 80 °C	
Rear Temperature	170 to 180 °C	
Middle Temperature	180 to 190 °C	
Front Temperature	190 to 200 °C	
Injection Zone 4 Temperature	190 to 200 °C	
Nozzle Temperature	190 to 200 °C	
Processing (Melt) Temp	190 to 200 °C	
Mold Temperature	60 to 70 °C	
Injection Rate	Slow-Moderate	
Back Pressure	< 2.00 MPa	
Hot Runner	190 to 200 °C	
Screw Speed		
2.50 cm	150	
4.00 cm	100	
5.50 cm	70	

Notes

¹ 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.

² Typical properties: these are not to be construed as specifications.

³ 30s

⁴ 10°C/min



Hostaform® S 27063

Acetal (POM) Copolymer

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

Celanese Corporation

Florence, Florence USA

Telephone: 800-833-4882

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

Distributor

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

Channel Prime Alliance

Telephone: 800-247-8038

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

Availability: North America

Entec Polymers

Telephone: 833-319-0299

Web: https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy

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

