

Hostaform® S 27064

Acetal (POM) Copolymer

Celanese Corporation

Message:

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 high toughness, 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 high energy-absorbing capacity.

UL = Underwriters Laboratories (USA)

FMVSS = Federal Motor Vehicle Safety Standard (USA)

General Information			
UL YellowCard	E42337-234627		
Features	Ultra high toughness		
	Good liquidity		
Uses	Thin wall parts		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
Resin ID (ISO 1043)	POM-HI		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	18.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.7	%	ISO 294-4
Flow direction	1.8	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.65	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	44.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	35	%	ISO 527-2/1A/50
Tensile Creep Modulus			ISO 899-1

1 hr	1400	MPa	ISO 899-1
1000 hr	800	MPa	ISO 899-1
Flexural Modulus (23°C)	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	ISO 179/1eA
23°C	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	110	kJ/m ²	ISO 179/1eU
23°C, local fracture	150	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	77.0	°C	ISO 75-2/A
Melting Temperature ¹	166	°C	ISO 11357-3
CLTE - Flow	1.3E-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
Dielectric Strength	28	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.40		IEC 60250
1 MHz	4.40		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	0.010		IEC 60250
1 MHz	0.020		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.57 mm	HB		UL 94
3.17 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.15	%	
Hopper Temperature	20.0 - 30.0	°C	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 190	°C	
Front Temperature	190 - 200	°C	
Nozzle Temperature	190 - 200	°C	
Processing (Melt) Temp	190 - 200	°C	
Mold Temperature	60.0 - 70.0	°C	
Injection Pressure	60.0 - 120	MPa	

Injection Rate	Slow-Moderate	
Holding Pressure	60.0 - 120	MPa
Back Pressure	0.00 - 2.00	MPa

Injection instructions

Manifold Temperature: 190 to 200°CZone 4 Temperature: 190 to 200°CFeed Temperature: 60 to 80°C

NOTE

1. 10°C/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

