

Hostaform® C 13031

Acetal (POM) Copolymer

Celanese Corporation

Message:

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.

Monomers and additives are listed in EU-Regulation (EU) 10/2011

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)

UL = Underwriters Laboratories (USA)

FMVSS = Federal Motor Vehicle Safety Standard (USA)

General Information			
UL YellowCard	E42337-234598		
Features	Solvent resistance		
	Medium liquidity		
	Good chemical resistance		
	alkali resistance		
	Fuel resistance		
Agency Ratings	Hydrolysis resistance		
Agency Ratings	FDA 21 CFR 177.2470		
	Europe 10/1/2011 12:00:00 AM		
RoHS Compliance	Contact manufacturer		
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12.0	cm ³ /10min	ISO 1133

Molding Shrinkage			ISO 294-4
Vertical flow direction	1.8	%	ISO 294-4
Flow direction	2.0	%	ISO 294-4
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
Tensile Creep Modulus			ISO 899-1
1 hr	2750	MPa	ISO 899-1
1000 hr	1450	MPa	ISO 899-1
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 ²	ISO 179/1eA
23°C	6.7	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	120	kJ/m ²	ISO 179/1eU
23°C	120	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	107	°C	ISO 75-2/A
Melting Temperature ¹	170	°C	ISO 11357-3
CLTE - Flow	1.1E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Dielectric Strength	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.00		IEC 60250
1 MHz	4.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		IEC 60250
1 MHz	5.0E-3		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°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 - 210	°C
Processing (Melt) Temp	190 - 210	°C
Mold Temperature	80.0 - 120	°C
Injection Pressure	60.0 - 120	MPa
Injection Rate	Slow-Moderate	
Holding Pressure	60.0 - 120	MPa
Back Pressure	0.00 - 4.00	MPa

Injection instructions

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

NOTE

1. 10°C/min

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