

Hostaform® C 2521

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 9988- POM-K, M-GNR, 01-002 POM copolymer Stiff-flowing type for injection molding and extrusion with high impact toughness and good tracking resistance over a high range of temperature; 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 Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm.

Ranges of applications: injection molding thick-walled, void-free molded parts; extrusion e.g. for boards and pipes.

FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

General				
Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America	
Features	Alkali ResistantChemical Resistant	Fuel ResistantHigh Impact Resistance	Hydrolysis ResistantSolvent Resistant	
Jses	Piping	 Thick-walled Parts 		
Agency Ratings	• EU 10/2011	• FDA 21 CFR 177.2470		
RoHS Compliance	 Contact Manufacturer 			
Processing Method	 Extrusion 	Injection Molding		
Resin ID (ISO 1043)	• POM			

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.41	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.50	cm³/10min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	1.8	%		
Flow	2.1	%		
Water Absorption (Saturation, 73°F)	0.65	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	377000	psi	ISO 527-2/1A	
Tensile Stress (Yield)	8990	psi	ISO 527-2/1A/50	
Tensile Strain (Yield)	9.0	%	ISO 527-2/1A/50	
Nominal Tensile Strain at Break	32	%	ISO 527-2/1A/50	
Tensile Creep Modulus (1 hr)	334000	psi	ISO 899-1	
Tensile Creep Modulus (1000 hr)	160000	psi	ISO 899-1	
Flexural Modulus (73°F)	363000	psi	ISO 178	
mpact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	3.3	ft·lb/in²		
73°F	4.0	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	120	ft·lb/in²		
73°F, Partial Break	120	ft·lb/in²		

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Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness ²	20900	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	214	°F	ISO 75-2/A
Vicat Softening Temperature	304	°F	ISO 306/B50
Melting Temperature ³	329	°F	ISO 11357-3
CLTE - Flow	6.1E-5	in/in/°F	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
Electric Strength	890	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.00		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	1.5E-3		
1 MHz	5.0E-3		
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	НВ		
0.12 in	НВ		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	1.20	g/cm³	Internal Method
Melt Thermal Conductivity	1.1	Btu·in/hr/ft²/°F	Internal Method
Ejection Temperature	284	°F	
Specific Heat Capacity of Melt	0.528	Btu/lb/°F	

Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	212 to 248	°F		
Drying Time	3.0 to 4.0	hr		
Suggested Max Moisture	0.15	%		
Hopper Temperature	68 to 86	°F		
Rear Temperature	338 to 356	°F		
Middle Temperature	356 to 374	°F		
Front Temperature	374 to 392	°F		
Nozzle Temperature	374 to 410	°F		
Processing (Melt) Temp	374 to 410	°F		
Mold Temperature	176 to 248	°F		
Injection Rate	Slow-Moderate			
Back Pressure	< 580	psi		

Feeding zone temperature: 60 to 80°C Zone4 temperature: 190 to 210°C Hot runner temperature: 190 to 210°C



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Notes

¹ Typical properties: these are not to be construed as specifications.

² 30s

3 10°C/min

