



Hostaform® C 2521 G

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-GNS, 01-001 POM copolymer Stiff-flowing type for injection molding and extrusion, modified with (R) GUR (PE-UHMW); good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation; with GUR (PE-UHMW) modified extrusion type, therefore very good lubricating properties. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: For injection molding parts and semi-finished products with higher requirements on lubricating properties. FMVSS = Federal Motor Vehicle Safety Standard (USA)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Alkali Resistant • Chemical Resistant	• Fuel Resistant • Hydrolysis Resistant	• Solvent Resistant
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	1.34	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.50	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 73°F)	0.80	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	305000	psi	ISO 527-2/1A
Tensile Stress (Yield)	6380	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	12	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	15	%	ISO 527-2/1A/50
Tensile Creep Modulus (1 hr)	261000	psi	ISO 899-1
Tensile Creep Modulus (1000 hr)	145000	psi	ISO 899-1
Flexural Modulus (73°F)	290000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.1	ft-lb/in ²	
73°F	2.4	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	24	ft-lb/in ²	
73°F	24	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness ²	16000	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	183	°F	ISO 75-2/A
Vicat Softening Temperature	284	°F	ISO 306/B50
Melting Temperature ³	329	°F	ISO 11357-3
CLTE - Flow	5.6E-5	in/in/°F	ISO 11359-2

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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	3.80		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	7.0E-3		
Comparative Tracking Index	600	V	IEC 60112

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	
Back Pressure	< 290	psi

Injection Notes

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

Notes

- ¹ Typical properties: these are not to be construed as specifications.
² 30s
³ 10°C/min