

Hostaform® S 27072 WS 10/1570

Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

General Information

Product Description

Chemical abbreviation according to ISO 1043-1: POM-HI Molding compound ISO 9988- POM-K, M-GCLP, 05-001 Modified POM copolymer Easy flowing, elastomer-containing injection molding type in color modifying black 10/1570; especially weathering resistant; lower chemical resistance than the basic type HOSTAFORM C 27021; high resistance to thermal and oxidative degradation. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: for molded parts with matt surface. FMVSS = Federal Motor Vehicle Safety Standard (USA)

General			
Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Chemical Resistant	Good Flow	 Good Weather Resistance
RoHS Compliance	 Contact Manufacturer 		
Appearance	• Black	Matte Finish	
Processing Method	 Injection Molding 		
Resin ID (ISO 1043)	• POM-HI		

ASTM & ISO Properties 1				
Physical	Nominal Value	Unit	Test Method	
Density	1.39	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	21	cm ³ /10min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	1.9	%		
Flow	1.8	%		
Water Absorption (Saturation, 73°F)	0.70	%	ISO 62	
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	290000	psi	ISO 527-2/1A	
Tensile Stress (Yield)	6670	psi	ISO 527-2/1A/50	
Tensile Strain (Yield)	8.0	%	ISO 527-2/1A/50	
Nominal Tensile Strain at Break	35	%	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)	305000	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	3.8	ft·lb/in²		
73°F	5.2	ft·lb/in²		
Charpy Unnotched Impact Strength			ISO 179/1eU	
-22°F	52	ft·lb/in²		
73°F, Partial Break	71	ft·lb/in²		
Hardness	Nominal Value	Unit	Test Method	
Ball Indentation Hardness ²	16700	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	275	°F	ISO 306/B50	



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Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	331	°F	ISO 11357-3
CLTE - Flow	6.7E-5	in/in/°F	ISO 11359-2

Processing Information				
Injection	Nominal Value Unit			
Drying Temperature	212 to 248 °F			
Drying Time	3.0 to 4.0 hr			
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 392 °F			
Processing (Melt) Temp	374 to 392 °F			
Mold Temperature	140 to 158 °F			
Injection Rate	Slow			
Back Pressure	< 290 psi			

Injection Notes

Feeding zone temperature: 60 to 80°C Zone4 temperature: 190 to 200°C Hot runner temperature: 190 to 200°C

Notes

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

² 30s



^{3 10°}C/min