

Hostaform® C 9021 10/1570

Acetal (POM) Copolymer

Celanese Corporation

Message:

Chemical abbreviation according to ISO 1043-1: POM

Molding compound ISO 9988- POM-K, M-GCL, 03-002

POM copolymer

Standard Injection molding type, UV-stabilized with carbon black;
good chemical resistance to solvents, fuel and strong alkalis as
well as good hydrolysis resistance; high resistance to thermal and
oxidative degradation.

UL-registration for a thickness more than 1.5 mm as UL 94 HB,
temperature index UL 746 B electrical 110°C, mechanical 90°C.

Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more
than 1 mm.

Ranges of applications: exterior applications.

UL = Underwriters Laboratories (USA)

FMVSS = Federal Motor Vehicle Safety Standard (USA)

General Information			
Additive	Carbon Black		
Features	Alkali Resistant		
	Fuel Resistant		
	Good Chemical Resistance		
	Hydrolysis Resistant		
	Solvent Resistant		
Uses	Outdoor Applications		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
Resin ID (ISO 1043)	POM		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.8	%	
Flow	2.0	%	
Water Absorption (Saturation, 23°C)	0.65	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	64.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	25	%	ISO 527-2/1A/50
Tensile Creep Modulus			ISO 899-1

1 hr	2500	MPa	
1000 hr	1400	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	6.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	110	kJ/m ²	
23°C	110	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	105	°C	ISO 75-2/A
Melting Temperature ¹	167	°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
Electric Strength	28	kV/mm	IEC 60243-1
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	80.0 to 120	°C	
Screw L/D Ratio	15.0:1.0 to 25.0:1.0		
NOTE			
1.	10°C/min		

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