Hostaform® S 27072 WS 10/1570

Acetal (POM) Copolymer

Celanese Corporation

Message:

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 Information			
UL YellowCard	E38860-101557136		
Features	Good liquidity Good weather resistance		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Processing Method	Injection molding		
Resin ID (ISO 1043)	POM-HI		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.39	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	21.0	cm³/10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.70	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	46.0	MPa	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			ISO 899-1
1 hr	1800	MPa	ISO 899-1
1000 hr	1000	MPa	ISO 899-1
Flexural Modulus (23°C)	2100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	ISO 179/1eA
23°C	11	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU

-30°C	110	kJ/m²	ISO 179/1eU
23°C, local fracture	150	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	84.0	°C	ISO 75-2/A
Melting Temperature [1]	166	°C	ISO 11357-3
CLTE - Flow	1.2E-4	cm/cm/°C	ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 4.0	hr	
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 - 200	°C	
Processing (Melt) Temp	190 - 200	°C	
Mold Temperature	60.0 - 70.0	°C	
Injection Pressure	60.0 - 120	MPa	
Injection Rate	Slow		
Holding Pressure	60.0 - 120	MPa	
Back Pressure	0.00 - 0.500	MPa	
Injection instructions			
Manifold Temperature: 190 to 200°CZone 4 Temperature: 190 to 200°CFeed Temperature: 60 to 80°C			
NOTE			
1.	10°C/min		

Recommended distributors for this material

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