Hostaform® C 13031 XAP

Acetal (POM) Copolymer

Celanese Corporation

Message:

Polyacetal copolymer, reduced emission
Easy flowing Injection molding type like C 13021 XAP, but with higher strength, rigidity and hardness over the entire permissible temperature range for HOSTAFORM; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation.
Emissions according to VDA 275 < 10 ppm (natural and colored grades)
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 < 100 mm/min for a thickness more than 1 mm.
Ranges of applications: For molded parts with higher requirements to strength, rigidity und hardness, ranges of applications with fuel contact.

General Information	
Features	Low volatilization Rigidity, high Solvent resistance Good chemical resistance alkali resistance Fuel resistance Hydrolysis resistance
Agency Ratings	FDA 21 CFR 177.2470 Europe 10/1/2011 12:00:00 AM
RoHS Compliance	Contact manufacturer

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.8	%	ISO 294-4
Flow direction	2.0	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.65	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3050	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	68.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	20	%	ISO 527-2/1A/50

Tensile Creep Modulus			ISO 899-1
1 hr	2750	MPa	ISO 899-1
1000 hr	1450	MPa	ISO 899-1
Flexural Modulus (23°C)	3000	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m^2	ISO 179/1eA
23°C	6.7	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	120	kJ/m^2	ISO 179/1eU
23°C	120	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	107	°C	ISO 75-2/A
Melting Temperature [1]	170	°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
Dielectric Strength	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.00		IEC 60250
1 MHz	4.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		IEC 60250
1 MHz	5.0E-3		IEC 60250
Comparative Tracking Index	600	V	IEC 60112
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120 - 140	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.15	%	
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 - 210	°C	
Processing (Melt) Temp	190 - 210	°C	
Mold Temperature	80.0 - 120	°C	
Injection Pressure	60.0 - 120	MPa	
Injection Rate	Slow-Moderate		
Holding Pressure	60.0 - 120	MPa	
Back Pressure	0.00 - 4.00	MPa	

Screw L/D Ratio	15.0:1.0 to 25.0:1.0

Injection instructions
Manifold Temperature: 190 to 210°CZone 4 Temperature: 190 to 210°CFeed Temperature: 60 to 80°C

NOTE	
1.	10°C/min

Recommended distributors for this material

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