

Hostaform® C 9021 XAP®

Acetal (POM) Copolymer

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Low Emission

POM copolymer Product with reduced emissions especially for automotive interior application. Good properties of the standard-injection molding grades like high rigidity, hardness and toughness; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation are maintained Emission according to VDA 275 < 10 mg/kg (natural 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 < 75 mm/min for a thickness more than 1 mm. FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• Celanese Corporation • Hostaform®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Mold Release
Uses	• Automotive Applications
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature, Dynamic (ISO 11403-1) • Shear Stress vs. Shear Rate (ISO 11403-1) • Specific Volume vs Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value Unit	Test Method
Density	1.41 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.0 cm ³ /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	1.9 %	
Flow	2.0 %	
Water Absorption		ISO 62
Saturation, 23°C	0.65 %	
Equilibrium, 23°C, 50% RH	0.20 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2850 MPa	ISO 527-2/1A
Tensile Stress (Yield)	64.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0 %	ISO 527-2/1A/50
Nominal Tensile Strain at Break	30 %	ISO 527-2/1A/50
Tensile Creep Modulus		ISO 899-1
1 hr	2500 MPa	
1000 hr	1300 MPa	
Flexural Modulus (23°C)	2700 MPa	ISO 178

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	220 kJ/m ²	
23°C, Partial Break	220 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness ²	144 MPa	ISO 2039-1



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Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	104 °C	ISO 75-2/A
Vicat Softening Temperature	150 °C	ISO 306/B50
Melting Temperature ³	166 °C	ISO 11357-3
CLTE		ISO 11359-2
Flow	1.1E-4 cm/cm/°C	
Transverse	1.1E-4 cm/cm/°C	
Effective Thermal Diffusivity	0.0485 cSt	Internal Method
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	35 kV/mm	IEC 60243-1
Dielectric Constant		IEC 60250
100 Hz	4.00	
1 MHz	4.00	
Dissipation Factor		IEC 60250
100 Hz	2.0E-3	
1 MHz	5.0E-3	
Comparative Tracking Index (CTI)	PLC 0	UL 746
Fill Analysis	Nominal Value Unit	Test Method
Melt Density	1.20 g/cm ³	Internal Method
Melt Specific Heat	2210 J/kg/°C	Internal Method
Melt Thermal Conductivity	0.16 W/m/K	Internal Method
Ejection Temperature	140 °C	Internal Method
Injection	Nominal Value Unit	
Drying Temperature	100 to 120 °C	
Drying Time	3.0 to 4.0 hr	
Suggested Max Moisture	0.15 %	
Hopper Temperature	20 to 30 °C	
Injection Feed Temperature	60 to 80 °C	
Rear Temperature	170 to 180 °C	
Middle Temperature	180 to 190 °C	
Front Temperature	190 to 200 °C	
Injection Zone 4 Temperature	190 to 210 °C	
Nozzle Temperature	190 to 210 °C	
Processing (Melt) Temp	190 to 210 °C	
Mold Temperature	80 to 120 °C	
Injection Rate	Slow-Moderate	
Back Pressure	< 4.00 MPa	
Hot Runner	190 to 210 °C	
Screw Speed		
2.50 cm	150	
4.00 cm	100	
5.50 cm	70	

Notes¹ Typical properties; these are not to be construed as specifications.² 30s³ 10°C/min

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Where to Buy

Supplier

Celanese Corporation

Florence, KY USA

Telephone: 800-833-4882

Web: <http://www.celanese.com/engineered-materials>

Distributor

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

Channel Prime Alliance

Telephone: 800-247-8038

Web: <http://www.channelpa.com/>

Availability: North America

Entec Polymers

Telephone: 800-375-5440

Web: <http://www.entecpolymers.com/>

Availability: North America

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

