



# Hostaform® C 9021 AS

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

## General Information

### Product Description

POM copolymer Antistatical modified; standard flowing Injection molding type; the antistatical effect improves, when the molding part absorbs enough humidity; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Hostaform C 9021 AS is suggested for dissipation of minor buildup of static electricity that might occur with standard type grades.

However, it is not intended for use in fuel system components where static dissipation is critical to part performance.

Please refer to Celanese's ESD (electrostatic dissipative) grades for those applications Preliminary Datasheet

### General

|                   |                                                            |                                                                |                     |
|-------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------|
| Material Status   | • Experimental: Active                                     |                                                                |                     |
| Availability      | • Africa & Middle East<br>• Asia Pacific                   | • Europe<br>• Latin America                                    | • North America     |
| Additive          | • Antistatic                                               |                                                                |                     |
| Features          | • Alkali Resistant<br>• Antistatic<br>• Chemical Resistant | • ESD Protection<br>• Fuel Resistant<br>• Hydrolysis Resistant | • Solvent Resistant |
| RoHS Compliance   | • Contact Manufacturer                                     |                                                                |                     |
| Processing Method | • Injection Molding                                        |                                                                |                     |

## ASTM & ISO Properties <sup>1</sup>

| Physical                                    | Nominal Value | Unit                   | Test Method     |
|---------------------------------------------|---------------|------------------------|-----------------|
| Density                                     | 1.41          | g/cm <sup>3</sup>      | ISO 1183        |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 8.50          | cm <sup>3</sup> /10min | ISO 1133        |
| Molding Shrinkage                           |               |                        | ISO 294-4       |
| Across Flow                                 | 1.8           | %                      |                 |
| Flow                                        | 1.9           | %                      |                 |
| Mechanical                                  | Nominal Value | Unit                   | Test Method     |
| Tensile Modulus                             | 399000        | psi                    | ISO 527-2/1A    |
| Tensile Stress (Yield)                      | 9140          | psi                    | ISO 527-2/1A/50 |
| Tensile Strain (Yield)                      | 10            | %                      | ISO 527-2/1A/50 |
| Nominal Tensile Strain at Break             | 30            | %                      | ISO 527-2/1A/50 |
| Impact                                      | Nominal Value | Unit                   | Test Method     |
| Charpy Notched Impact Strength              |               |                        | ISO 179/1eA     |
| -22°F                                       | 2.6           | ft·lb/in <sup>2</sup>  |                 |
| 73°F                                        | 2.9           | ft·lb/in <sup>2</sup>  |                 |
| Charpy Unnotched Impact Strength            |               |                        | ISO 179/1eU     |
| -22°F                                       | 86            | ft·lb/in <sup>2</sup>  |                 |
| 73°F                                        | 86            | ft·lb/in <sup>2</sup>  |                 |
| Thermal                                     | Nominal Value | Unit                   | Test Method     |
| Melting Temperature <sup>2</sup>            | 331           | °F                     | ISO 11357-3     |
| CLTE - Flow                                 | 6.1E-5        | in/in/°F               | ISO 11359-2     |
| Electrical                                  | Nominal Value | Unit                   | Test Method     |
| Surface Resistivity                         | 1.0E+12       | ohms                   | IEC 60093       |

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### Processing Information

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 212 to 248    | °F   |
| Drying Time        | 3.0 to 4.0    | hr   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min