# Hostaform® C 36021

## Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

## General Information

**Product Description**

Hostaform® C 36021 is an unfilled acetal copolymer grade formulated for high flow while retaining a good balance of mechanical properties.
Chemical abbreviation according to ISO 1043-1: POM

**General**

| | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • High Flow | | |
| RoHS Compliance | • Contact Manufacturer | | |
| Resin ID (ISO 1043) | • POM | | |

## ASTM & ISO Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.41 | g/cm³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 32 | cm³/10min | ISO 1133 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 1.8 | % | |
| Flow | 1.9 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 406000 | psi | ISO 527-2/1A |
| Tensile Stress (Yield) | 9860 | psi | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 8.0 | % | ISO 527-2/1A/50 |
| Flexural Modulus (73°F) | 406000 | psi | ISO 178 |
| Flexural Stress (3.5% Strain) | 11000 | psi | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (73°F) | 2.4 | ft·lb/in² | ISO 179/1eA |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (264 psi, Unannealed) | 217 | °F | ISO 75-2/A |
| Melting Temperature [2] | 331 | °F | ISO 11357-3 |
| CLTE - Flow | 6.1E-5 | in/in/°F | ISO 11359-2 |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 212 to 248 | °F |
| Drying Time | 3.0 to 4.0 | hr |
| Rear Temperature | 338 to 356 | °F |
| Middle Temperature | 356 to 374 | °F |
| Front Temperature | 356 to 374 | °F |
| Nozzle Temperature | 356 to 392 | °F |
| Processing (Melt) Temp | 356 to 392 | °F |
| Mold Temperature | 176 to 248 | °F |
| Injection Rate | Moderate | |
| Back Pressure | < 580 | psi |

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| Injection Notes |
| --- |
| Zone4 temperature: 180 to 200°C |

### Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 10°C/min