# Hostaform® XGC10

## Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

## General Information

**Product Description**

Hostaform® XGC10 is a Polyacetalcopolymer reinforced with approx. 10% glass fibres. Compared to the Hostaform® C 9021 GV 1/10 Hostaform® XGC10 has a higher strength.

**General**

| | | | |
|---|---|---|---|
| Material Status | • Experimental: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 10% Filler by Weight | | |
| Features | • Copolymer | • Good Strength | |
| RoHS Compliance | • Contact Manufacturer | | |

## ASTM & ISO Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.48 | g/cm³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 3.00 | cm³/10min | ISO 1133 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 1.0 | % | |
| Flow | 1.5 | % | |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 682000 | psi | ISO 527-2/1A/1 |
| Tensile Stress (Break) | 16000 | psi | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 4.9 | % | ISO 527-2/1A/5 |
| Flexural Modulus (73°F) | 609000 | psi | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (73°F) | 4.0 | ft·lb/in² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (73°F) | 29 | ft·lb/in² | ISO 179/1eU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (264 psi, Unannealed) | 309 | °F | ISO 75-2/A |
| Melting Temperature [2] | 331 | °F | ISO 11357-3 |
| CLTE - Flow | 3.3E-5 | in/in/°F | ISO 11359-2 |
| CLTE - Transverse | 4.4E-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 |
| Suggested Max Moisture | 0.15 | % |
| Hopper Temperature | 68 to 86 | °F |
| Rear Temperature | 338 to 356 | °F |
| Middle Temperature | 356 to 374 | °F |
| Front Temperature | 374 to 392 | °F |
| Nozzle Temperature | 374 to 410 | °F |
| Processing (Melt) Temp | 374 to 410 | °F |

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| Injection | Nominal Value | Unit |
|---|---|---|
| Mold Temperature | 176 to 248 | °F |
| Injection Pressure | 8700 to 17400 | psi |
| Injection Rate | Slow | |
| Holding Pressure | 8700 to 17400 | psi |
| Back Pressure | 0.00 to 290 | psi |

**Injection Notes**

Manifold Temperature: 190 to 210°C
Zone 4 Temperature: 190 to 210°C
Feed Temperature: 60 to 80°C

### Notes

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

[2] 10°C/min