



## Hostaform® XGC40

Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

### General Information

#### Product Description

Hostaform® XGC40 is a Polyacetalcopolymer reinforced with approx. 40% glass fibres.

#### General

|                        |                                          |                             |                 |
|------------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status        | • Experimental: Active                   |                             |                 |
| Availability           | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 40% Filler by Weight      |                             |                 |

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

| Physical                                          | Nominal Value | Unit                  | Test Method    |
|---------------------------------------------------|---------------|-----------------------|----------------|
| Density                                           | 1.73          | g/cm <sup>3</sup>     | ISO 1183       |
| Molding Shrinkage                                 |               |                       | ISO 294-4      |
| Across Flow                                       | 0.80          | %                     |                |
| Flow                                              | 0.40          | %                     |                |
| Mechanical                                        | Nominal Value | Unit                  | Test Method    |
| Tensile Modulus                                   | 2.18E+6       | psi                   | ISO 527-2/1A   |
| Tensile Stress (Break)                            | 29000         | psi                   | ISO 527-2/1A/5 |
| Tensile Strain (Break)                            | 2.8           | %                     | ISO 527-2/1A/5 |
| Impact                                            | Nominal Value | Unit                  | Test Method    |
| Charpy Notched Impact Strength (73°F)             | 6.2           | ft·lb/in <sup>2</sup> | ISO 179/1eA    |
| Thermal                                           | Nominal Value | Unit                  | Test Method    |
| Heat Deflection Temperature (264 psi, Unannealed) | 325           | °F                    | ISO 75-2/A     |
| Melting Temperature <sup>2</sup>                  | 331           | °F                    | ISO 11357-3    |

### 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   |
| Mold Temperature       | 176 to 248    | °F   |
| Injection Rate         | Slow          |      |
| Back Pressure          | < 290         | psi  |

#### Injection Notes

Feeding zone temperature: 60 to 80°C  
Zone4 temperature: 190 to 210°C  
Hot runner temperature: 190 to 210°C

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### Notes

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

<sup>2</sup> 10°C/min

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