



Hostaform® C 9021 TF5

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Hostaform® C 9021 TF5 is a standard flow low level polytetrafluoroethylene filled (PTFE) product designed for use in wear applications against plastics, metal, glass or ceramic mating surfaces where silicone lubricants can not be tolerated.

General

| | | | |
|-----------------|------------------------|-----------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Additive | • PTFE Lubricant | | |
| Features | • Wear Resistant | | |
| RoHS Compliance | • Contact Manufacturer | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|------------------------|-----------------|
| Density | 1.44 | g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 8.00 | cm ³ /10min | ISO 1133 |
| Water Absorption (Saturation, 73°F) | 0.65 | % | ISO 62 |
| Water Absorption (Equilibrium, 73°F, 50% RH) | 0.20 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 377000 | psi | ISO 527-2/1A |
| Tensile Stress (Yield) | 8410 | psi | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 9.0 | % | ISO 527-2/1A/50 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 2.5 | ft·lb/in ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°F | 52 | ft·lb/in ² | |
| 73°F | 59 | ft·lb/in ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (264 psi, Unannealed) | 216 | °F | ISO 75-2/A |
| Melting Temperature ² | 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 |
| 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 |

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Injection Notes

Feeding zone temperature: 60 to 80°C

Zone4 temperature: 190 to 210°C

Hot runner temperature: 190 to 210°C

Notes

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

² 10°C/min