



Hostaform® AM90S Plus

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Hostaform® acetal copolymer grade AM90S Plus is a standard melt viscosity acetal copolymer based material containing an antimicrobial ingredient. AM90S Plus reaches maximum efficacy more rapidly than standard AM90S. Hostaform® AM90S Plus provides the same physical and mechanical performance of standard Hostaform and Celcon acetal copolymer grades plus the added benefit of inhibiting bacterial growth.

Preliminary Data Sheet

General

| | | | |
|-----------------|-----------------------------|----------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| Additive | • Antimicrobial (Fungicide) | | |
| Features | • Microbe Resistant | | |
| RoHS Compliance | • Contact Manufacturer | | |

ASTM & ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|------------------------|-----------------|
| Density | 1.41 | g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 8.00 | cm ³ /10min | ISO 1133 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 2.2 | % | |
| Flow | 2.6 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 399000 | psi | ISO 527-2/1A/1 |
| Tensile Stress (Yield) | 9430 | psi | ISO 527-2/1A/50 |
| Tensile Strain (Yield) | 10 | % | ISO 527-2/1A/50 |
| Flexural Modulus (73°F) | 384000 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°F | 2.6 | ft·lb/in ² | |
| 73°F | 2.6 | ft·lb/in ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (264 psi, Unannealed) | 212 | °F | ISO 75-2/A |
| Melting Temperature ² | 333 | °F | ISO 11357-3 |
| CLTE - Flow | 6.1E-5 | in/in/°F | ISO 11359-2 |

Processing Information

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 176 to 212 | °F |
| Drying Time | 3.0 | hr |
| Rear Temperature | 338 to 356 | °F |
| Middle Temperature | 356 to 374 | °F |
| Front Temperature | 356 to 374 | °F |
| Nozzle Temperature | 374 to 392 | °F |
| Processing (Melt) Temp | 356 to 392 | °F |

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| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Mold Temperature | 176 to 248 | °F |
| Injection Pressure | 8700 to 17400 | psi |
| Injection Rate | Slow-Moderate | |
| Holding Pressure | 8700 to 17400 | psi |
| Back Pressure | 0.00 to 580 | psi |

Injection Notes

Manifold Temperature: 180 to 200°C

Zone 4 Temperature: 190 to 200°C

Notes

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

² 10°C/min