# Bergaform™ C300 LE

## Acetal (POM) Copolymer

### Key Characteristics

| | |
|---|---|
| **Product Description** | |
| POM, injection molding grade | |
| **General** | |
| Material Status | • Commercial: Active |
| Regional Availability | • Europe |
| Processing Method | • Injection Molding |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.39 to 1.43 g/cm³ | 1.39 to 1.43 g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 9.0 g/10 min | 9.0 g/10 min | ISO 1133 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 8.00 cm³/10min | 8.00 cm³/10min | ISO 1133 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Modulus | 406000 psi | 2800 MPa | ISO 527-2 |
| Tensile Stress (Yield) | 8990 psi | 62.0 MPa | ISO 527-2 |
| Tensile Strain (Yield) | 10 % | 10 % | ISO 527-2 |
| Tensile Strain (Break) | 50 % | 50 % | ISO 527-2 |
| Flexural Modulus | 363000 psi | 2500 MPa | ISO 178 |
| Flexural Stress | 9280 psi | 64.0 MPa | ISO 178 |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Charpy Notched Impact Strength | | | ISO 179 |
| -22°F (-30°C) | 2.4 ft·lb/in² | 5.0 kJ/m² | |
| 73°F (23°C) | 2.9 ft·lb/in² | 6.0 kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -22°F (-30°C) | No Break | No Break | |
| 73°F (23°C) | No Break | No Break | |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Heat Deflection Temperature | | | ISO 75-2/A |
| 264 psi (1.8 MPa), Unannealed | 239 °F | 115 °C | |
| Vicat Softening Temperature | 302 °F | 150 °C | ISO 306 |
| Melting Temperature (DSC) | 329 to 338 °F | 165 to 170 °C | ISO 3146 |
| **Electrical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Comparative Tracking Index | 600 V | 600 V | IEC 60112 |
| **Flammability** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Flame Rating (0.13 in (3.2 mm)) | HB | HB | UL 94 |
| FMVSS Flammability | < 3.9 in/min | < 100 mm/min | DIN 75200 |
| **Additional Information** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Formaldehyde Emissions | < 10.0 mg/kg | < 10.0 mg/kg | VDA 275 |

### Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Temperature | 248 to 284 °F | 120 to 140 °C |

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Time | 4.0 hr | 4.0 hr |
| Processing (Melt) Temp | 338 to 374 °F | 170 to 190 °C |
| Mold Temperature | 176 to 248 °F | 80 to 120 °C |

### Notes

[1] Typical values are not to be construed as specifications.

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