



Bergaform™ C300 BLACK UV

Acetal (POM) Copolymer

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East	• Europe
Features	• UV Stabilized	
Appearance	• Black	
Processing Method	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.39 to 1.43 g/cm ³	1.39 to 1.43 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 to 9.0 g/10 min	5.0 to 9.0 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2
Tensile Stress (Yield)	7980 psi	55.0 MPa	ISO 527-2
Tensile Strain (Yield)	9.5 %	9.5 %	ISO 527-2
Tensile Strain (Break)	45 %	45 %	ISO 527-2
Flexural Modulus	334000 psi	2300 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	2.6 ft·lb/in ²	5.5 kJ/m ²	
73°F (23°C)	2.9 ft·lb/in ²	6.0 kJ/m ²	
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	221 °F	105 °C	
Vicat Softening Temperature	293 °F	145 °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

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	212 to 248 °F	100 to 120 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	338 to 446 °F	170 to 230 °C
Mold Temperature	140 to 248 °F	60 to 120 °C