

# 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 <sup>3</sup>	1.39 to 1.43 g/cm <sup>3</sup>	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
lechanical	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
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	2.6 ft·lb/in²	5.5 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	
hermal	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
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	НВ	НВ	UL 94
FMVSS Flammability	< 3.9 in/min	< 100 mm/min	DIN 75200

## **Processing Information**

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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	

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### **Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

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