



Bergaform™ C310 Natural

Acetal (POM) Copolymer

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Automotive Specifications	• FMVSS 302
Appearance	• Natural Color
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.38 to 1.42 g/cm ³	1.38 to 1.42 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 to 11 g/10 min	8.0 to 11 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00 to 8.00 cm ³ /10min	6.00 to 8.00 cm ³ /10min	ISO 1133
Molding Shrinkage (0.0787 in (2.00 mm))	1.6 to 2.4 %	1.6 to 2.4 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2
Tensile Stress (Yield)	8700 psi	60.0 MPa	ISO 527-2
Tensile Strain (Yield)	10 %	10 %	ISO 527-2
Tensile Strain (Break)	50 %	50 %	ISO 527-2
Flexural Modulus	297000 psi	2050 MPa	ISO 178
Flexural Stress	16000 psi	110 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/B
66 psi (0.45 MPa), Unannealed	302 °F	150 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	
Vicat Softening Temperature	320 °F	160 °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 ²	< 3.9 in/min	< 100 mm/min	DIN 75200

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	374 to 410 °F	190 to 210 °C
Mold Temperature	167 to 212 °F	75 to 100 °C

Notes

¹ Typical values are not to be construed as specifications.

² also valid for TL1010



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