LubriOne™ LB9800-8001 AR Black

Polyetheretherketone

Key Characteristics

Product Description			
Carbon Fiber, PTFE and Graphite Filled Standard Flow PEEK Compound			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Carbon Fiber	• Graphite Powder	• PTFE Micropowder
Features	• High Heat Resistance • Low Friction	• Lubricated • Wear Resistant	
Uses	• Appliance Components • Automotive Applications • Bearings	• Business Equipment • Consumer Applications • Conveyor Parts	• Gears • Industrial Applications • Printer Parts
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2] (73°F (23°C))	1.43 g/cm³	1.43 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus			ISO 527-1/1/5
73°F (23°C), 0.126 in (3.20 mm)	1.81E+6 psi	12500 MPa	
Tensile Stress			ISO 527-2/1/5
Break, 73°F (23°C), 0.126 in (3.20 mm)	21000 psi	145 MPa	
Tensile Strain			ISO 527-2/1/5
Break, 73°F (23°C), 0.126 in (3.20 mm)	3.0 %	3.0 %	
Flexural Modulus [3]			ISO 178
73°F (23°C), 0.157 in (4.00 mm), 2.52 in (64.0 mm) Span	1.38E+6 psi	9500 MPa	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	3.3 ft·lb/in²	7.0 kJ/m²	ISO 179

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	302 to 320 °F	150 to 160 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	662 to 761 °F	350 to 405 °C
Mold Temperature	356 to 392 °F	180 to 200 °C

Injection Notes

Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

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Notes

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

[2] ±0.03

[3] 0.079 in/min (2.0 mm/min)

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