LubriOne™ PC-000/05T AR Medium Basalt

Polycarbonate

Key Characteristics

Product Description			
PC based lubricate composites			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Filler / Reinforcement	• Fluoropolymer, 5.0% Filler by Weight		
Additive	• PTFE Lubricant: 5%		
Features	• Self Lubricating		
Uses	• Household Goods	• Printer Parts	• Transmission Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Dark Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23	ASTM D792
Molding Shrinkage - Flow	6.9E-3 in/in	0.69 %	Internal Method
Molding Shrinkage - Across Flow	7.6E-3 in/in	0.76 %	Internal Method
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2]			ASTM D638
73°F (23°C), 0.126 in (3.20 mm)	8700 psi	60.0 MPa	
Flexural Modulus			ASTM D790
73°F (23°C), 0.126 in (3.20 mm)	364000 psi	2510 MPa	
Flexural Strength			ASTM D790
73°F (23°C), 0.126 in (3.20 mm)	13600 psi	94.0 MPa	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	2.7 ft·lb/in	140 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	253 °F	123 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			Internal Method
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	248 to 266 °F	120 to 130 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	554 to 590 °F	290 to 310 °C
Mold Temperature	194 to 230 °F	90 to 110 °C

Notes

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

[2] 2.0 in/min (50 mm/min)

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