

Latilub 88/50-20GRT K/10

Polyetheretherketone

LATI S.p.A.

Message:

Self-lubricating product based on Polyetheretherketone (PEEK).

Graphite / PTFE. Carbon fibre.

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	PTFE + Graphite Lubricant		
Features	Self Lubricating		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.60 to 0.90	%	
Flow : 2.00 mm	0.25 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	12500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	145	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.3	%	ISO 527-2/5
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.20		
vs. Itself - Static	0.26		
Wear Factor	6.30E-10	(m ³ /h)/(N·m·h)	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	55	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	350	°C	ISO 75-2/B
1.8 MPa, Unannealed	295	°C	ISO 75-2/A
Vicat Softening Temperature	350	°C	ISO 306/B50
Injection	Nominal Value	Unit	Test Method
Drying Temperature	120 to 150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	370 to 400	°C	
Mold Temperature	170 to 200	°C	
Injection Rate	Moderate-Fast		
NOTE			

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