

Latilub 88/50-30GRT

Polyetheretherketone

LATI S.p.A.

Message:

Self-lubricating product based on Polyetheretherketone (PEEK).
Graphite/PTFE.

General Information			
Additive	PTFE + Graphite Lubricant		
Features	Self Lubricating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
2.00 mm	0.90 to 1.3	%	
Flow : 2.00 mm	0.65 to 1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2/5
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.18		
vs. Itself - Static	0.26		
Wear Factor	4.70E-10	(m ³ /h)/(N·m·h)	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	65	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	165	°C	ASTM D648
Vicat Softening Temperature	280	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature	120 to 150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	360 to 390	°C	
Mold Temperature	170 to 200	°C	
Injection Rate	Moderate-Fast		

NOTE

1. at 60 MPa of cavity pressure

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