

Latilub 80-10T K/15

Polyphenylene Sulfide

LATI S.p.A.

Message:

Self-lubricating product based on Polyphenylene Sulphide (PPS).
PTFE. Carbon fibre.

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Self Lubricating		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.30 to 0.50	%	
Flow : 2.00 mm	0.20 to 0.35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	16000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	130	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.70	%	ISO 527-2/5
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.21		
vs. Itself - Static	0.26		
Wear Factor	8.00E-10	(m³/h)/(N·m·h)	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	45	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	280	°C	ISO 75-2/B
1.8 MPa, Unannealed	265	°C	ISO 75-2/A
Vicat Softening Temperature	255	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	290 to 310	°C	
Mold Temperature	130 to 150	°C	
Injection Rate	Moderate-Fast		
NOTE			

1. at 60 Mpa of cavity pressure

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