

Latilub 80-40GRT

Polyphenylene Sulfide

LATI S.p.A.

Message:

Self-lubricating product based on Polyphenylene Sulphide (PPS).
Graphite / PTFE.

General Information			
Additive	PTFE + Graphite Lubricant		
Features	Self Lubricating		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.50 to 0.80	%	
Flow : 2.00 mm	0.45 to 0.75	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6800	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2/5
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.090		
vs. Itself - Static	0.16		
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)	1.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	15	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	150	°C	ISO 75-2/A
Vicat Softening Temperature	245	°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			

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