

Laticonther 80 GR/50

Polyphenylene Sulfide

LATI S.p.A.

Message:

High thermal conductivity product based on Polyphenylene Sulphide (PPS).
Graphite.

General Information			
Additive	Graphite Powder Lubricant		
Features	Thermally Conductive		
Physical	Nominal Value	Unit	Test Method
Density	1.71	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.40 to 0.60	%	
Flow : 2.00 mm	0.30 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	14500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	60.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.60	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	25	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	275	°C	ISO 75-2/B
1.8 MPa, Unannealed	230	°C	ISO 75-2/A
Continuous Use Temperature ²	220	°C	
Vicat Softening Temperature	245	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	6.0E-6	cm/cm/°C	ASTM D696
Thermal Conductivity	10	W/m/K	ASTM E1952-01
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+2	ohms	ASTM D257
Volume Resistivity	2.0E+3	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12

1.00 mm	960	°C
2.00 mm	960	°C
Injection	Nominal Value	Unit
Drying Temperature	110 to 130	°C
Drying Time	3.0	hr
Processing (Melt) Temp	290 to 320	°C
Mold Temperature	130 to 140	°C
Injection Rate	Moderate-Fast	
NOTE		
1.	at 60 Mpa of cavity pressure	
2.	20,000 hr	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

