

Laticonther 80 CPG/700

Polyphenylene Sulfide

LATI S.p.A.

Message:

High thermal conductivity product based on Polyphenylene Sulphide (PPS).
Special filler. Glass fibres.

General Information			
Filler / Reinforcement	Filler		
	Glass Fiber,70% Filler by Weight		
Features	Thermally Conductive		
Physical	Nominal Value	Unit	Test Method
Density	2.55	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.25 to 0.40	%	
Flow : 2.00 mm	0.20 to 0.35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	14000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	60.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.50	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	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)	35	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	245	°C	ISO 75-2/A
Continuous Use Temperature ²	220	°C	
Vicat Softening Temperature	250	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	6.0E-6	cm/cm/°C	ASTM D696
Thermal Conductivity	1.4	W/m/K	ASTM E1952-01
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ³ (2.00 mm)	23	kV/mm	ASTM D149
Comparative Tracking Index ⁴ (Solution A)	225	V	IEC 60112
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	
3.	Method A (Short-Time)	
4.	Without Surfactant	

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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



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