

Laticonther 80 GCE/650

Polyphenylene Sulfide

LATI S.p.A.

Message:

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

General Information			
Filler / Reinforcement	Glass\Mineral,65% Filler by Weight		
Features	Thermally Conductive		
Physical	Nominal Value	Unit	Test Method
Density	1.91	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.15 to 0.30	%	
Flow : 2.00 mm	0.10 to 0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	23000	MPa	
60°C	20000	MPa	
90°C	18000	MPa	
120°C	13000	MPa	
150°C	8000	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	145	MPa	
Break, 60°C	130	MPa	
Break, 90°C	115	MPa	
Break, 120°C	75.0	MPa	
Break, 150°C	60.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	0.80	%	
Break, 60°C	1.1	%	
Break, 90°C	1.2	%	
Break, 120°C	2.0	%	
Break, 150°C	2.5	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	60	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	285	°C	ISO 75-2/B
1.8 MPa, Unannealed	275	°C	ISO 75-2/A
Continuous Use Temperature ²	225	°C	
Vicat Softening Temperature	260	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	4.0E-6	cm/cm/°C	ASTM D696
Thermal Conductivity	0.90	W/m/K	ASTM E1952-01
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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