

Latigloss 57 G/40 F2

Polyphthalamide

LATI S.p.A.

Message:

Product with high mechanical properties and exceptional surface finish based on Semi-aromatic polyamide (PPA).
Glass fibres. Potentially suitable for food/medical contact application.

General Information	
Filler / Reinforcement	Glass Fiber,40% Filler by Weight
Features	Good Surface Finish
Uses	Medical/Healthcare Applications
	Non-specific Food Applications
Agency Ratings	ACS Unspecified Rating
	DVGW W270
	KTW Unspecified Rating
	NSF 61
	WRAS Unspecified Rating

Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.45 to 0.70	%	
Flow : 2.00 mm	0.25 to 0.45	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	14500	MPa	
60°C	13000	MPa	
90°C	11500	MPa	
120°C	9000	MPa	
150°C	4000	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	210	MPa	
Break, 60°C	195	MPa	
Break, 90°C	175	MPa	
Break, 120°C	125	MPa	
Break, 150°C	65.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.9	%	
Break, 60°C	2.1	%	

Break, 90°C	2.3	%	
Break, 120°C	4.0	%	
Break, 150°C	8.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	290	°C	ISO 75-2/B
1.8 MPa, Unannealed	265	°C	ISO 75-2/A
Continuous Use Temperature ²	145	°C	
Vicat Softening Temperature	260	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	4.0E-6	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	120 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	310 to 340	°C	
Mold Temperature	150 to 170	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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