

Latamid SP1

Polyamide 610

LATI S.p.A.

Message:

Polyamide 6.10 (PA6.10).
Unfilled. Low moisture absorption.

General Information			
Features	Low Moisture Absorption		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.0 to 1.4	%	
Flow : 2.00 mm	1.0 to 1.4	%	
Water Absorption (23°C, 24 hr)	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	2400	MPa	
60°C	700	MPa	
90°C	450	MPa	
120°C	300	MPa	
150°C	200	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	65.0	MPa	
Break, 23°C	60.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	100	%	
Break, 60°C	> 100	%	
Break, 90°C	> 100	%	
Break, 120°C	> 100	%	
Break, 150°C	> 100	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	175	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Continuous Use Temperature ²	70.0	°C	
Vicat Softening Temperature	180	°C	ISO 306/B50

CLTE - Flow (30 to 100°C)	8.0E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
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

