

Latimass 82-03 D080

Polyamide 12

LATI S.p.A.

Message:

Specific density compound based on Polyamide 12 (PA 12).

General Information			
Physical	Nominal Value	Unit	Test Method
Density	8.10	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.60 to 0.90	%	
Flow : 2.00 mm	0.60 to 0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4800	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield, 23°C	22.0	MPa	
Break, 23°C	20.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	1.0	%	
Break, 23°C	5.0	%	
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)	90	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	70	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Vicat Softening Temperature	165	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Rate	Moderate		
NOTE			

1. at 60 Mpa of cavity pressure

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