

Latimass 82-05 D040

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	4.25	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.30 to 0.60	%	
Flow : 2.00 mm	0.35 to 0.65	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	35.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.70	%	ISO 527-2/5
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)	20	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	55	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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+3	ohms	ASTM D257
Volume Resistivity	7.0E+3	ohms · cm	ASTM D257
Electromagnetic Reflection	74	%	
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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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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