

Latamid 12 H FE90

Polyamide 12

LATI S.p.A.

Message:

Compound based on Polyamide 12 (PA 12).
Heat stabilised. Magnetizable filler. Product UL certified.

General Information			
Filler / Reinforcement	Magnetite		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Physical	Nominal Value	Unit	Test Method
Density	3.27	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.70 to 0.90	%	
Flow : 2.00 mm	0.70 to 0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	35.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	35	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	150	°C	ISO 75-2/B
1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Continuous Use Temperature ²	110	°C	
Vicat Softening Temperature	160	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	240 to 260	°C	

Mold Temperature	60.0 to 80.0	°C
Injection Rate	Moderate	
NOTE		
1.	at 60 Mpa of cavity pressure	
2.	20,000 hr	

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