

Latene® AG7H2 G/50

Polypropylene Homopolymer

LATI S.p.A.

Message:

Compound based on Polypropylene homopolymer (PPh). Chemically coupled fibers.
Heat stabilised. Glass fibres.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
	Homopolymer		

Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.75 to 1.1	%	
Flow : 2.00 mm	0.25 to 0.50	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	10000	MPa	
60°C	8200	MPa	
90°C	5300	MPa	
Tensile Stress			ISO 527-2/5
Yield, 60°C	65.0	MPa	
Yield, 90°C	40.0	MPa	
Break, 23°C	105	MPa	
Break, 60°C	65.0	MPa	
Break, 90°C	40.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 60°C	2.7	%	
Yield, 90°C	4.2	%	
Break, 23°C	2.5	%	
Break, 60°C	3.4	%	
Break, 90°C	6.0	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	18	kJ/m ²	
23°C	20	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	60	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	140	°C	ISO 75-2/A
Continuous Use Temperature ²	125	°C	
Vicat Softening Temperature	140	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	8.0E-6	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	200 to 240	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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