

Latene® AG7H K/30

Polypropylene Homopolymer

LATI S.p.A.

Message:

Polypropylene homopolymer (PPh) based compound.

Fibres chemically coupled. Heat stabilised. Carbon fibre. Good thermal properties.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
	Homopolymer		

Physical	Nominal Value	Unit	Test Method
Density	1.06	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	0.20 to 0.50	%	
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	15000	MPa	
60°C	11000	MPa	
90°C	7900	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	55.0	MPa	
Break, 60°C	35.0	MPa	
Break, 90°C	25.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	0.90	%	
Break, 60°C	1.3	%	
Break, 90°C	2.3	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eU

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	160	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	7.0E-6	cm/cm/°C	ISO 11359-2
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	Moderate-Fast		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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