

Latene® AG9H MI/40

Polypropylene Homopolymer

LATI S.p.A.

Message:

Compound based on Polypropylene homopolymer (PPh). Chemically coupled fibers.
Heat stabilised. Mica filler.

General Information			
Filler / Reinforcement	Mica,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
	Homopolymer		

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.80 to 1.1	%	
Flow : 2.00 mm	0.80 to 1.1	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	4200	MPa	
60°C	2500	MPa	
90°C	1200	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	25.0	MPa	
Yield, 60°C	15.0	MPa	
Yield, 90°C	10.0	MPa	
Break, 23°C	25.0	MPa	
Break, 60°C	15.0	MPa	
Break, 90°C	5.00	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	2.0	%	
Yield, 60°C	3.0	%	
Yield, 90°C	3.0	%	
Break, 23°C	3.0	%	
Break, 60°C	5.0	%	
Break, 90°C	20	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	1.0	kJ/m ²	
23°C	1.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	8.0	kJ/m ²	
23°C	10	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	20	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	125	°C	ISO 75-2/B
1.8 MPa, Unannealed	100	°C	ISO 75-2/A
Continuous Use Temperature ²	120	°C	
Vicat Softening Temperature	110	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-5	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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