

HAIPLEN H50 C12

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer 60% calcium carbonate filled, medium flow.

General Information			
Filler / Reinforcement	Pearl filler, 60% packing by weight		
Features	Homopolymer		
	Medium liquidity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction: 23°C, 3.20mm	0.70	%	Internal method
Flow direction: 23°C, 3.20mm	0.70	%	Internal method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1
Tensile Stress (Yield)	22.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	> 2.0	%	ISO 527-2/50
Flexural Modulus ¹	3000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	130	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	158	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
CLTE - Flow	6.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94

Glow Wire Flammability Index (1.60 mm)	750	°C	IEC 60695-2-12
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ² (550°C)	60	%	ISO 3451
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 - 220	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Rate	Fast		
Injection instructions			
Pre-heat Temperature: 80 to 100°CPre-heat Time: 1 hr			
NOTE			
1.	1.0 mm/min		
2.	1 hr		

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