

HAIPLEN H70 G4 MI2 BA

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer 30% mineral/glass fibres reinforced chemically coupled, medium flow, high stiffness and resistance to deformation under load also at high temperatures.

General Information			
Filler / Reinforcement	Glass \mineral, 30% filler by weight		
Features	Rigidity, high		
	Chemical coupling		
	Homopolymer		
	Medium liquidity		
	Heat resistance, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.40 - 0.60	%	Internal method
Flow direction	0.20 - 0.40	%	Internal method
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4400	MPa	ISO 527-2/1
Tensile Stress (Break)	70.0	MPa	ISO 527-2/50
Flexural Modulus ¹	4200	MPa	ISO 178
Flexural Stress ²	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	155	°C	ISO 75-2/B
1.8 MPa, not annealed	145	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	125	°C	ISO 306/B50
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
Oxygen Index	20	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ³ (600°C)	30	%	ISO 3451
Injection	Nominal Value	Unit	
Processing (Melt) Temp	220 - 250	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Rate	Moderate		
Injection instructions			
Pre-heat Temperature: 70 to 80°CPre-heat Time: 1 hr			
NOTE			
1.	1.0 mm/min		
2.	1.0 mm/min		
3.	1 hr		

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