

HAIPLEN H50 G6 BA

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer glass fibre reinforced 30% chemical coupled, improved flow, good mechanical properties.
Available: all colours, UV stabilised (L), heat stabilised (H), laser printable (LP), detergent stabilised (D)

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Chemically Coupled		
	Detergent Resistant		
	Good Flow		
	Good UV Resistance		
	Heat Stabilized		
	Homopolymer		
	Laser Markable		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.40	%	
Across Flow	0.70 to 0.90	%	
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5600	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	67.0	MPa	
Break	90.0	MPa	
Tensile Elongation (Break)	4.5	%	ASTM D638, ISO 527-2
Flexural Modulus	5400	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	65	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact	85	J/m	ISO 180, ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	140	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ASTM D1525, ISO 306/A 2 ¹
--	130	°C	ASTM D1525, ISO 306/B 3 ²
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	25	kV/mm	ASTM D149
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
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Rate	Moderate		
NOTE			
1.	Loading 1 (10 N)		
2.	Loading 2 (50 N)		

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