

HAIPLEN H50 T4

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer talcum filled 20%.
Available: all colors, UV stabilized (L), heat stabilized (H), release agent (W), laser printable (LP), detergent stabilized (D).

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
	UV Stabilizer		
Features	Detergent Resistant		
	Good Mold Release		
	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	1.05	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	1.1	%	
Across Flow	1.1	%	
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	40	%	ASTM D638, ISO 527-2
Flexural Modulus	2500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	50.0	MPa	ISO 178
Break	50.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	75.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ASTM D1525, ISO 306/A50 2 ¹
--	85.0	°C	ASTM D1525, ISO 306/B50 3 ²
Ball Pressure Test (125°C)	Pass		VDE 0470
Melting Temperature	165	°C	ASTM D211, ISO 121
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	650	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	550	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	30.0 to 50.0	°C	
Injection Rate	Fast		
NOTE			
1.	Rate A (50°C/h), Loading 1 (10 N)		
2.	Rate A (50°C/h), Loading 2 (50 N)		

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