

HAIPLEN EP50 T3

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer 16% mineral filled, high flow, good stiffness/impact balance.
Available: all colors, UV stabilized (L), heat stabilized (H), laser printable (LP), detergent stabilized(D), anti-static (AS), release agent (W).

General Information			
Filler / Reinforcement	Mineral,16% Filler by Weight		
Additive	Antistatic		
	Heat Stabilizer		
	Mold Release		
	UV Stabilizer		
Features	Antistatic		
	Copolymer		
	Detergent Resistant		
	Good Impact Resistance		
	Good Mold Release		
	Good Stiffness		
	Good UV Resistance		
	Heat Stabilized		
	High Flow		
	Laser Markable		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	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	%	
Granule Humidity	0.050	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ASTM D638, ISO 527-2
Tensile Strength (Yield)	21.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	16	%	ASTM D638, ISO 527-2
Flexural Modulus	1850	MPa	ASTM D790, ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	23	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength	No Break		ASTM D256, ISO 179
Notched Izod Impact	45	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	108	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	56.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	140	°C	ASTM D1525, ISO 306/A 2 ¹
--	68.0	°C	ASTM D1525, ISO 306/B 3 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
Oxygen Index	21	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	1.0	hr	
Processing (Melt) Temp	200 to 240	°C	
Mold Temperature	30.0 to 60.0	°C	
Injection Rate	Fast		
NOTE			
1.	Loading 1 (10 N)		
2.	Loading 2 (50 N)		

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