

HAIPLEN EP50 T2 X2

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer talcum filled 10% self extinguishing V2, good flow and mechanical properties.

Available: all colors, UV stabilized (L), heat stabilized (H), laser printable (LP), detergent stabilized(D)

General Information			
Filler / Reinforcement	Talc,10% Filler by Weight		
Features	Copolymer		
	Detergent Resistant		
	Flame Retardant		
	Good Flow		
	Good UV Resistance		
	Heat Stabilized		
	Laser Markable		
	Self Extinguishing		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	1.1	%	
Across Flow : 3.20 mm	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)	30	%	ASTM D638, ISO 527-2
Flexural Modulus	1700	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180, ASTM D256
-40°C	22	J/m	
-23°C	30	J/m	
23°C	80	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	125	°C	ASTM D648
0.45 MPa, Unannealed	125	°C	ISO 75-2/B

1.8 MPa, Unannealed, 3.20 mm	65.0	°C	ASTM D648
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	152	°C	ASTM D1525, ISO 306/A 2 ¹
--	80.0	°C	ASTM D1525, ISO 306/B 3 ²
Ball Pressure Test (125°C)	Pass		VDE 0470
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	> 600	V	IEC 60112
Needle Flame Test			VDE 0471/2
1.60 mm	Pass		
3.20 mm	Pass		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-2		
3.20 mm	V-2		
Glow Wire Flammability Index (1.60 mm)	960	°C	IEC 60695-2-12
Oxygen Index	26	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	180 to 200	°C	
Mold Temperature	30.0 to 50.0	°C	
Injection Rate	Fast		
NOTE			
1.	Loading 1 (10 N)		
2.	Loading 2 (50 N)		

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