

HAIPLEN H50 Y0

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer self extinguishing V0 halogen free, good flow and mechanical properties.

UL94 V0 - all colors - 1,6 mm

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

General Information			
UL YellowCard	E143048-256786		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Detergent Resistant		
	Good Flow		
	Good UV Resistance		
	Halogen Free		
	Heat Stabilized		
	Homopolymer		
	Laser Markable		
	Self Extinguishing		
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	1.0	%	
Across Flow	1.0	%	
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	10	%	ASTM D638, ISO 527-2
Flexural Modulus	2000	MPa	ASTM D790, ISO 178
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			

0.45 MPa, Unannealed	130	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	90.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature ¹	85.0	°C	IEC 60216
Vicat Softening Temperature			
--	155	°C	ASTM D1525, ISO 306/A 4 ²
--	95.0	°C	ASTM D1525, ISO 306/B 5 ³
Ball Pressure Test (125°C)	Pass		VDE 0470
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	25	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Ignition Temperature (1.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	30	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Rate	Moderate		
NOTE			
1.	20000 hrs		
2.	Loading 1 (10 N)		
3.	Loading 2 (50 N)		

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