

HAIPLEN H90 X2

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer flame retardant UL 94 V2 high flow.
UL94 V2 - all colors - 1,5 mm (yellow card)
Available: all colors, UV stabilized (L), heat stabilized (H), laser printable (LP), detergent stabilized(D), low blooming(LB)

General Information			
UL YellowCard	E143048-223255		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Detergent Resistant		
	Flame Retardant		
	Good UV Resistance		
	Heat Stabilized		
	High Flow		
	Homopolymer		
	Laser Markable		
	Low Blooming		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	1.3	%	
Across Flow	1.3	%	
Water Absorption (23°C, 24 hr)	0.030	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	40	%	ASTM D638, ISO 527-2
Flexural Modulus	1500	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-23°C	25	J/m	ISO 180, ASTM D256
0°C	35	J/m	ISO 180, ASTM D256

23°C	45	J/m	ASTM D256, ISO 1798
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	120	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ASTM D1525, ISO 306/A 3 ¹
--	94.0	°C	ASTM D1525, ISO 306/B 4 ²
Electrical	Nominal Value	Unit	Test Method
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 (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	850	°C	IEC 60695-2-13
Oxygen Index	26	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 90.0	°C	
Drying Time	1.0	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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