

HAIPLEN H89 X2

Polypropylene Homopolymer

Taro Plast S.p.A.

Message:

Polypropylene homopolymer medium high flow, flame retardant UV94 V2, good mechanical properties.

General Information			
UL YellowCard	E143048-223255		
Additive	Flame retardancy		
Features	Homopolymer		
	Medium liquidity		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	1.3	%	Internal method
Flow direction	1.3	%	Internal method
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1700	MPa	ISO 527-2/1
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Break)	70	%	ISO 527-2/50
Flexural Modulus ¹	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-23°C	25	J/m	ASTM D256
0°C	30	J/m	ASTM D256
23°C	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	120	°C	ISO 75-2/B
1.8 MPa, not annealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A50
--	90.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index (Solution A)	600	V	IEC 60112
Needle Flame Test (1.60 mm)	Pass		IEC 60695-11-5
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-2		UL 94
3.20 mm	V-2		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	26	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 200	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Fast		
Injection instructions			
Pre-heat Temperature: 70 to 90°CPre-heat Time: 1 hr			
NOTE			
1.	1.0 mm/min		

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