

HAIPLEN EP80 Y2

Polypropylene Copolymer

Taro Plast S.p.A.

Message:

Polypropylene copolymer medium viscosity, halogen free flame retardant UL94 V2, good mechanical properties. Designed for electrical applications requiring the compliance with RoHS decree (2002/95/CE).

General Information			
UL YellowCard	E143048-100867606		
Additive	Flame retardancy		
Features	Copolymer		
	Halogen-free		
	Medium viscosity		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	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)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 50	%	ISO 527-2/50
Flexural Modulus ¹	2000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	°C	ISO 75-2/A
Continuous Use Temperature ²	90.0	°C	IEC 60216
Vicat Softening Temperature			
--	138	°C	ISO 306/A50
--	92.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	PLC 0		UL 746

Comparative Tracking Index (Solution A)	600	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746
1.00 mm	PLC 0		UL 746
1.60 mm	PLC 0		UL 746
3.00 mm	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
1.00 mm	PLC 3		UL 746
1.60 mm	PLC 2		UL 746
3.00 mm	PLC 1		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	V-2		UL 94
1.60 mm	V-2		UL 94
3.00 mm	V-2		UL 94
Glow Wire Flammability Index (1.00 mm)	825	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	850	°C	IEC 60695-2-13
Oxygen Index	25	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 210	°C	
Mold Temperature	40.0 - 60.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Pre-heat Temperature: 70 to 80°CPre-heat Time: 1 hr			
NOTE			
1.	1.0 mm/min		
2.	20,000 hr		

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