

Retpol® 9034 HS

Polypropylene Copolymer

PolyPacific Pty. Ltd.

Message:

Retpol 9034 HS is a high flow, flame retardant polypropylene copolymer compound. It has been developed to meet the requirements of the UL 94 V0 rating and the AS/NZS 60695.2.12 960°C glow wire rating, whilst providing good impact strength and rigidity. The flame retardant system is based on halogenated hydrocarbon compounds with an antimony trioxide synergist. It is a highly heat stabilized compound.

General Information			
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Copolymer		
	Flame Retardant		
	Good Impact Resistance		
	Good Stiffness		
	Halogenated		
	Heat Stabilized		
	High Flow		
Uses	Appliances		
	Electrical/Electronic Applications		
	Housings		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.3 to 1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	22.0	MPa	ASTM D638
Tensile Elongation ² (Break)	160	%	ASTM D638
Flexural Modulus	980	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	45	J/m	ASTM D256
Unnotched Izod Impact	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	80.0	°C	ASTM D648

CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index (3.00 mm)	960	°C	AS/NZS 60695.2.12
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Regrind	5	%	
Processing (Melt) Temp	180 to 225	°C	
Mold Temperature	20.0 to 60.0	°C	
Injection Rate	Moderate		
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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