

# Retpol® 7120/2

Polypropylene Copolymer

PolyPacific Pty. Ltd.

## Message:

Retpol 7120/2 is a low flow, flame retardant copolymer polypropylene compound. It has been developed to meet the requirements of the UL 94 V-2 rating and the AS/NZS 60695.2.12 960°C glow wire rating, whilst providing good rigidity and very high impact strength. The flame retardant system is based on halogenated hydrocarbons with antimony trioxide synergist.

General Information			
Additive	Flame Retardant		
Features	Copolymer		
	Flame Retardant		
	Good Stiffness		
	Halogenated		
	Low Flow		
	Ultra High Impact Resistance		
Uses	Containers		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 1.9	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	24.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	300	%	ASTM D638
Flexural Modulus	1120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	180	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	84.0	°C	ASTM D648
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-2		
3.00 mm	V-2		
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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