

Retpol® PDR 9044 UVA

Polypropylene Copolymer

PolyPacific Pty. Ltd.

Message:

Retpol PDR 9044 UVA is a high flow, flame retardant copolymer polypropylene compound providing good impact strength and rigidity. The flame retardant system is based on halogenated hydrocarbon compounds with an antimony trioxide synergist. It has been UV stabilized for extended outdoor weathering.

General Information			
Additive	Flame Retardant		
	UV Stabilizer		
Features	Copolymer		
	Flame Retardant		
	Good Impact Resistance		
	Good Stiffness		
	Halogenated		
	High Flow		
Uses	Outdoor Applications		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 1.9	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	22.0	MPa	ASTM D638
Tensile Elongation ² (Break)	130	%	ASTM D638
Flexural Modulus	1120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	93	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)	93.0	°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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