

Retpol® 1094 UVH

Polypropylene Copolymer

PolyPacific Pty. Ltd.

Message:

Corton 1094 UVH is a 20% talc filled copolymer polypropylene compound. It is a medium to high flow injection moulding grade developed for rigid components requiring good impact strength and dimensional stability. It is stabilized to meet continuous outdoor weathering requirements.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Copolymer		
	Good Dimensional Stability		
	Good Impact Resistance		
	Medium Flow		
Uses	Outdoor Applications		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.1 to 1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.00 mm)	80		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	73		
Shore D, 15 sec, 3.00 mm	64		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	24.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	48	%	ASTM D638
Flexural Modulus (3.00 mm)	2050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.00 mm)	41	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	117	°C	
1.8 MPa, Unannealed, 3.00 mm	59.0	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	7.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	

Drying Time	2.0 to 4.0	hr
Suggested Max Regrind	10	%
Processing (Melt) Temp	200 to 260	°C
Mold Temperature	20.0 to 60.0	°C
Injection Rate	Moderate-Fast	

NOTE		
1.	50 mm/min	
2.	50 mm/min	

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