

Retpol® 7157 TF HS

Polypropylene Copolymer

PolyPacific Pty. Ltd.

Message:

CORTON 7157 HS is a 20% talc filled copolymer polypropylene compound. It is a low flow extrusion grade developed for blow moulding applications providing good rigidity and impact strength. It is stabilized to meet automotive heat ageing requirements of 21 days at 150°C.

General Information	
Filler / Reinforcement	Talc,20% Filler by Weight
Additive	Heat Stabilizer
Features	Copolymer
	Good Impact Resistance
	Good Stiffness
	Heat Stabilized
	Low Flow
Uses	Automotive Applications
	Automotive Under the Hood
	Blow Molding Applications
Forms	Granules
Processing Method	Blow Molding
	Extrusion

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)	1.5	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)	88		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	73		
Shore D, 15 sec, 3.00 mm	65		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	230	%	ASTM D638
Flexural Modulus (3.00 mm)	2030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.00 mm)	120	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	1200	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	119	°C	
1.8 MPa, Unannealed, 3.00 mm	59.0	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	8.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Suggested Max Regrind	10	%	
Extrusion	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	180 to 240	°C	
Cylinder Zone 2 Temp.	180 to 240	°C	
Cylinder Zone 3 Temp.	180 to 240	°C	
Cylinder Zone 4 Temp.	180 to 240	°C	
Cylinder Zone 5 Temp.	180 to 240	°C	
Adapter Temperature	180 to 200	°C	
Die Temperature	200 to 230	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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