

Retpol® 3083 HS

Polypropylene

PolyPacific Pty. Ltd.

Message:

Extron 3083 HS is a 50% glass fibre reinforced coupled polypropylene compound. It is a medium flow injection moulding grade developed for components requiring very high rigidity and excellent creep resistance with high heat deflection temperatures and good impact strength. It has been stabilized to meet automotive heat aging requirements of 21days at 150°C.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Good Creep Resistance		
	Good Impact Resistance		
	Heat Stabilized		
	High Rigidity		
	Medium Flow		
Uses	Automotive Applications		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.10 to 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.00 mm)	110		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	84		
Shore D, 15 sec, 3.00 mm	80		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	125	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	2.0	%	ASTM D638
Flexural Modulus (3.00 mm)	11000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.00 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.00 mm)	680	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.00 mm	160	°C	

1.8 MPa, Unannealed, 3.00 mm	154	°C	
CLTE - Flow (-30 to 30°C, 3.00 mm)	3.0E-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		
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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