

STERLENE™ RP0100230U

Polypropylene

R&P; (Pte.) Ltd.

Message:

STERLENE™ RP0100230U is a 30% glass fiber reinforced polypropylene that offers good mechanical properties for applications requiring good dimension stability, rigidity and strength. In comparison to general PP, this grade offers optimum warpage, heat and chemical resistance. It can be processed by injection molding and is highly suitable for application such as home appliances, housewares, utility components & furniture.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Strength		
	Medium Heat Resistance		
	Medium Rigidity		
Uses	Appliances		
	Consumer Applications		
	Furniture		
	Household Goods		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) ¹ (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8670	MPa	ISO 527-2/50
Tensile Stress (23°C)	43.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	< 5.0	%	ISO 527-2/50
Flexural Modulus ² (23°C)	6820	MPa	ISO 178
Flexural Stress ³ (23°C)	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Complete Break)	5.4	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	149	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	118	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Time	2.0	hr	

Processing (Melt) Temp	190 to 240	°C
Mold Temperature	25.0 to 60.0	°C

NOTE

1.	Procedure B
2.	2.0 mm/min
3.	2.0 mm/min

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