

PROTEQ™ C30ST4

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C30ST4 is a high flow, 20% talc filled, heat stabilised polypropylene copolymer. PROTEQ™ C30ST4 has been designed for larger size injection moulded parts requiring enhanced flow characteristics and thermal stability.

PROTEQ™ C30ST4 also features improved stiffness, heat distortion temperature performance and faster injection moulding times compared to unfilled polypropylene. The designed features makes PROTEQ™ C30ST4 very suitable for household appliance applications.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Copolymer		
	Good Flow		
	Good Stiffness		
	Good Thermal Stability		
	Heat Stabilized		
	High Flow		
Uses	Appliance Components		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	72		
Shore D, 15 sec	64		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	28.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	35	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	47.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	50	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	550	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	125	°C	

1.8 MPa, Unannealed, 3.20 mm	75.0	°C	
CLTE - Flow	7.5E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (1.60 mm)	550	°C	AS/NZS 60695
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	210 to 230	°C	
Middle Temperature	220 to 240	°C	
Front Temperature	230 to 260	°C	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	60.0 to 140	MPa	
Injection Rate	Moderate		
Back Pressure	0.100 to 0.500	MPa	
Screw Speed	40 to 60	rpm	
Clamp Tonnage	3.0 to 6.0	kN/cm ²	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	10 mm/min		
4.	10 mm/min		

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