

PROTEQ™ C15ST2

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C15ST2 is a medium flow 10% talc filled heat stabilised grade of polypropylene copolymer. It is intended for use in applications where elevated use temperatures occur and heat age stability is required.

General Information			
Filler / Reinforcement	Talc,10% Filler by Weight		
Additive	Heat Stabilizer		
Features	Copolymer		
	Good Heat Aging Resistance		
	Heat Stabilized		
	High Heat Resistance		
	Medium Flow		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.968	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)	1.4	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	70		
Shore D, 15 sec	63		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2150	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	45.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	65	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	700	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	129	°C	
1.8 MPa, Unannealed, 3.20 mm	69.0	°C	
CLTE - Flow	8.0E-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	85.0 to 90.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	195 to 215	°C
Middle Temperature	205 to 225	°C
Front Temperature	215 to 235	°C
Processing (Melt) Temp	220 to 270	°C
Mold Temperature	50.0 to 80.0	°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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