

PROTEQ™ C1S

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C1S is a heat stabilized, lower flow polypropylene copolymer with good impact and melt strength characteristics designed for extrusion and blow moulding applications.

Note: The letters "U" indicate UV stabilisation [ie: PROTEQ™PP C1US].

General Information			
Additive	Heat Stabilizer		
Features	Copolymer		
	Good Impact Resistance		
	Good Melt Strength		
	Heat Stabilized		
	Low Flow		
Uses	Blow Molding Applications		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	68		
Shore D, 15 sec	62		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 70	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1180	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	36.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	200	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	80.0	°C	
1.8 MPa, Unannealed, 3.20 mm	52.0	°C	

CLTE - Flow	9.0E-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		
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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