

PROTEQ™ C30US

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C30US is a Polypropylene copolymer which has been heat and UV stabilised with antistatic treatment. PROTEQ™C30US is designed for difficult to fill automotive applications requiring a balance of toughness, rigidity, heat resistance, marr resistance and even surface appearance. Typical applications are automotive interior trim.

General Information			
Additive	Antistatic Heat Stabilizer UV Stabilizer		
Features	Antistatic Copolymer Good Stiffness Good Surface Finish Good Toughness Heat Stabilized Medium Heat Resistance		
Uses	Automotive Applications Automotive Interior Trim		
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)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	90	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1100	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)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	78.0	°C	

1.8 MPa, Unannealed, 3.20 mm	50.0	°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.	1.3 mm/min		
4.	1.3 mm/min		

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