

PROTEQ™ C19UST32SR

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C19UST32SR is a high melt flow automotive polypropylene copolymer containing 17% talc filler which features improved resistance to heat ageing, UV weathering and Scratching. PROTEQ™ C19UST32 has been designed to meet the stringent requirements of automotive interior & exterior trim durability specifications, combining easy processing with toughness, rigidity, heat resistance, reduced gloss and improved scratch and marr resistance.

General Information			
Filler / Reinforcement	Talc,17% Filler by Weight		
Additive	UV Stabilizer		
Features	Copolymer		
	Good Heat Aging Resistance		
	Good Stiffness		
	Good Toughness		
	Good UV Resistance		
	High Flow		
	Low Gloss		
	Medium Heat Resistance		
Uses	Automotive Applications		
	Automotive Exterior Trim		
	Automotive Interior Parts		
	Automotive Interior Trim		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	72		
Shore D, 15 sec	63		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	28.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	45	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2400	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	46.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-30°C, 3.20 mm	35	J/m	
23°C, 3.20 mm	60	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	123	°C	
1.8 MPa, Unannealed, 3.20 mm	66.0	°C	
CLTE - Flow	7.6E-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	205 to 225	°C	
Middle Temperature	215 to 235	°C	
Front Temperature	225 to 245	°C	
Processing (Melt) Temp	220 to 270	°C	
Mold Temperature	40.0 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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