

PROTEQ™ C17UST32L

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C17UST32L is a polypropylene copolymer containing 17% mineral filler which has been impact modified, heat stabilised and UV stabilised. PROTEQ™ C17UST32L 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 marr resistance.

General Information	
Filler / Reinforcement	Mineral, 17% Filler by Weight
Additive	Heat Stabilizer
	Impact Modifier
	UV Stabilizer
Features	Copolymer
	Good Processability
	Good Stiffness
	Good Toughness
	Good UV Resistance
	Heat Stabilized
	Impact Modified
	Low Gloss
	Medium Heat Resistance
Uses	Automotive Applications
	Automotive Exterior Trim
	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)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	71		
Shore D, 15 sec	62		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	22.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	80	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2050	MPa	ASTM D790

Flexural Strength ⁴ (3.20 mm)	41.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	110	J/m	
23°C, 3.20 mm	290	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	118	°C	
1.8 MPa, Unannealed, 3.20 mm	63.0	°C	
CLTE - Flow	7.4E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (1.60 mm)	550	°C	AS/NZS 60695.2.12
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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