

PROTEQ™ C18UST5L

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C18UST5L is a high melt flow, impact toughened, marr resistant, 25% mineral reinforced polypropylene copolymer which features improved heat ageing and UV performance. PROTEQ™ C18UST5L has been designed to meet the stringent requirements of automotive interior trim durability specifications, combining easy processing with reduced gloss and improved marr resistance. Typical automotive interior applications include consoles, seat bolsters, steering shrouds, doortrims and glovebox lids.

General Information	
Filler / Reinforcement	Mineral,25% Filler by Weight
Additive	Impact Modifier
Features	Copolymer
	Good Heat Aging Resistance
	Good Processability
	Good UV Resistance
	High Flow
	Impact Modified
	Low Gloss

Uses	Automotive Applications
	Automotive Interior Parts
	Automotive Interior Trim

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	69		
Shore D, 15 sec	63		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	24.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	130	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	280	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	127	°C	
1.8 MPa, Unannealed, 3.20 mm	67.0	°C	
CLTE - Flow	7.2E-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	30.0 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		

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