

# PROTEQ™ C18UST4L

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

## Message:

PROTEQ™ C18UST4L is a high melt flow, impact toughened, 20% mineral reinforced polypropylene copolymer grade which features improved heat ageing and UV performance. This grade meets the stringent requirements of automotive interior trim durability specifications, combining good low temperature toughness with rigidity, heat resistance and improved mar performance whilst enabling easy processing and uniform reduced gloss. This grade has been developed for automotive doortrim lower components and other interior trim items.

General Information	
Filler / Reinforcement	Mineral,20% Filler by Weight
Additive	Impact Modifier
Features	Copolymer
	Good Heat Aging Resistance
	Good Processability
	Good Stiffness
	Good UV Resistance
	High Flow
	Impact Modified
	Low Gloss
	Low Temperature Toughness
Uses	Medium Heat Resistance
	Automotive Applications
Automotive Interior Trim	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	71		
Shore D, 15 sec	63		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (3.20 mm)	24.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 3.20 mm)	80	%	ASTM D638
Flexural Modulus <sup>3</sup> (3.20 mm)	2280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	300	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	122	°C	
1.8 MPa, Unannealed, 3.20 mm	70.0	°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 <sup>2</sup>	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	10 mm/min		

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