

PROTEQ™ C24UST6L

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C24UST6L is a high melt flow, impact toughened, 30% mineral reinforced polypropylene copolymer which features improved heat ageing and UV performance. PROTEQ™ C24UST6L has been designed to meet the stringent requirements of automotive interior trim durability specifications, combining easy processing with improved toughness, high rigidity, 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,30% Filler by Weight
Additive	Heat Stabilizer
	Impact Modifier
	UV Stabilizer
Features	Good Heat Aging Resistance
	Good Processability
	Good Toughness
	Good UV Resistance
	Heat Stabilized
	High Flow
	High Rigidity
	Impact Modified
	Low Gloss
Uses	Automotive Applications
	Automotive Interior Trim

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	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	70		
Shore D, 15 sec	64		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	25.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	70	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790

Flexural Strength ⁴ (3.20 mm)	38.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	240	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	62.0	°C	
CLTE - Flow	7.0E-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	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		
4.	10 mm/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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