

PROTEQ™ C35UST2

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C35UST2 is one of the higher melt flow automotive polypropylene copolymers which contains 10% talc filler and features improved heat ageing and UV performance. PROTEQ™ C35UST2 has been designed to meet the stringent requirements of automotive exterior and interior trim durability specifications, combining easy processing with rigidity, toughness and heat resistance. Typical automotive interior applications are consoles, seat bolsters, steering shrouds, door liners and glovebox lids.

General Information	
Filler / Reinforcement	Talc, 10% Filler by Weight
Additive	Heat Stabilizer
	UV Stabilizer
Features	Copolymer
	Good Heat Aging Resistance
	Good Processability
	Good Stiffness
	Good Toughness
	Good UV Resistance
	Heat Stabilized
	High Flow
	Medium Heat Resistance
Uses	Automotive Applications
	Automotive Exterior Trim
	Automotive Interior Trim

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.978	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	34	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.4	%	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 ¹ (3.20 mm)	26.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	50	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2050	MPa	ASTM D790

Flexural Strength ⁴ (3.20 mm)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	55	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	600	J/m	ASTM D256
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	65.0	°C	
CLTE - Flow	8.0E-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	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	50.0 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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