

PROTEQ™ C21UST4Z

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C21UST4Z is a polypropylene copolymer containing 20% mineral filler which has been highly impact modified, heat stabilised and UV stabilised. PROTEQ™ C21UST4Z has been designed to meet the stringent requirements of automotive interior & exterior trim durability specifications, combining easy processing with low temperature toughness, rigidity, heat resistance, reduced gloss and improved marr resistance.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	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)	0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	66		
Shore D, 15 sec	58		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	19.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	200	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1750	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	34.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	130	J/m	
23°C, 3.20 mm	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	112	°C	
1.8 MPa, Unannealed, 3.20 mm	60.0	°C	
CLTE - Flow	6.8E-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	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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