

PROTEQ™ C12UST4Z

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C12UST4Z is a super tough, 20% talc filled polypropylene copolymer which features ultra high impact strength at sub zero temperatures together with improved heat ageing and UV performance. PROTEQ™ C12UST4Z 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 applications are interior trim mouldings adjacent to or surrounding airbags.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Copolymer		
	Good UV Resistance		
	Heat Stabilized		
	Ultra High Impact Resistance		
Uses	Automotive Interior Trim		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	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	64		
Shore D, 15 sec	55		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
3.20 mm ¹	17.0	MPa	
3.20 mm ²	20.0	MPa	
Tensile Elongation			ASTM D638
Break, 3.20 mm ³	580	%	
Break, 3.20 mm ⁴	250	%	
Flexural Modulus			ASTM D790
3.20 mm ⁵	1350	MPa	
3.20 mm ⁶	1650	MPa	
Flexural Strength			ASTM D790
3.20 mm ⁷	27.0	MPa	

3.20 mm ⁸	32.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	380	J/m	
0°C, 3.20 mm	530	J/m	
23°C, 3.20 mm	630	J/m	
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	60.0	°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.	5.0 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	50 mm/min		
5.	1.3 mm/min		
6.	10 mm/min		
7.	1.3 mm/min		
8.	10 mm/min		

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