

PROTEQ™ C24UST23Z

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C24UST23Z is a polypropylene copolymer containing 13% mineral filler which has been impact modified, heat and UV stabilised. This grade has been developed for applications such as automotive bumper bar and fascia components, requiring easy die filling, dimensional stability, weathering resistance and high low temperature toughness.

General Information			
Filler / Reinforcement	Mineral, 13% Filler by Weight		
Additive	Heat Stabilizer		
	Impact Modifier		
	UV Stabilizer		
Features	Copolymer		
	Good Dimensional Stability		
	Good UV Resistance		
	Good Weather Resistance		
	Heat Stabilized		
	Impact Modified		
	Low Temperature Toughness		
Uses	Automotive Applications		
	Automotive Bumper		
	Fascias		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.970	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	64		
Shore D, 15 sec	57		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	17.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	250	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1150	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	28.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	170	J/m	
0°C, 3.20 mm	460	J/m	
23°C, 3.20 mm	630	J/m	
Unnotched Izod Impact (3.20 mm)			ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	93.0	°C	
1.8 MPa, Unannealed, 3.20 mm	53.0	°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 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	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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