

PROTEQ™ C16USQM42

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C16USQM42 is a medium melt flow automotive polypropylene copolymer containing 20% glass reinforcement and 10% talc filler which also features improved heat ageing and UV performance. PROTEQ™ C16USQM42 has been designed to meet the stringent requirements of automotive interior and exterior trim durability specifications, combining easy processing with reduced warpage.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
	Talc,10% Filler by Weight		
Features	Copolymer		
	Good Heat Aging Resistance		
	Good Processability		
	Good UV Resistance		
	Low Warpage		
	Medium Flow		
Uses	Automotive Applications		
	Automotive Exterior Trim		
	Automotive Interior Trim		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	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)	0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	78		
Shore D, 15 sec	70		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	78.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4600	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	156	°C	
1.8 MPa, Unannealed, 3.20 mm	146	°C	
CLTE - Flow	3.2E-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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