

PROTEQ™ C4Q6

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C4Q6 is a 30% glass fibre reinforced grade of polypropylene copolymer. The grade has a coupling agent that further enhances the effectiveness of the glass fibre reinforcement. It is intended for use in applications where high rigidity is required.

Note: The datasheet has been obtained from limited testing and will be updated as results are correlated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Chemically Coupled		
	Copolymer		
	High Rigidity		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	77		
Shore D, 15 sec	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	72.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5700	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	125	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	78	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	155	°C	
1.8 MPa, Unannealed, 3.20 mm	148	°C	
Vicat Softening Temperature	160	°C	ASTM D1525 ⁵
CLTE - Flow	3.0E-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

Injection	Nominal Value	Unit
Drying Temperature	70.0 to 80.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	205 to 225	°C
Middle Temperature	220 to 240	°C
Front Temperature	230 to 250	°C
Processing (Melt) Temp	230 to 250	°C
Mold Temperature	40.0 to 70.0	°C
Injection Pressure	160 to 250	MPa
Injection Rate	Moderate-Fast	
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. 1.3 mm/min
4. 1.3 mm/min
5. Loading 1 (10 N)

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