

PROTEQ™ C12SQ6L

Polypropylene Copolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ C12SQ6L is a 30% Coupled Glass Fibre reinforced and Impact Modified Polypropylene Copolymer. The grade is Heat Stabilised and designed for applications requiring high rigidity and good impact strength.

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Heat Stabilizer
	Impact Modifier
Features	Chemically Coupled
	Good Impact Resistance
	Heat Stabilized
	High Purity
	Impact Modified

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)	9.0	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	75		
Shore D, 15 sec	66		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	60.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	5.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	4650	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	230	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	152	°C	
1.8 MPa, Unannealed, 3.20 mm	127	°C	
CLTE - Flow	3.8E-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	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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

