

PROTEQ™ H15SQ6

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™H15SQ6 is a fully heat stabilised 30% highly coupled glass fibre reinforced grade of polypropylene homopolymer. It has been heat stabilised to meet the demands of automotive under bonnet applications. is intended for use in applications where rigidity and heat resistance are required.

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Heat Stabilizer
Features	Chemically Coupled
	Heat Stabilized
	Homopolymer
	Medium Heat Resistance
	Medium Rigidity
Uses	Automotive Applications
	Automotive Under the Hood

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	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	78		
Shore D, 15 sec	73		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	87.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5750	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	128	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	100	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	500	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	160	°C	
1.8 MPa, Unannealed, 3.20 mm	148	°C	
Vicat Softening Temperature	162	°C	ASTM D1525 ⁵

CLTE - Flow	3.5E-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 60695.2.12
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	225 to 245	°C	
Front Temperature	235 to 255	°C	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	30.0 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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