

PROTEQ™ H4SG6

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H4SG6 is a heat stabilised 30% glass fibre reinforced grade of polypropylene homopolymer. It is intended for use in applications where rigidity and heat resistance are required.

Note: The letter U in the product name indicates that UV stabiliser has been added (PROTEQ™ H4SUG6)

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	High Heat Resistance		
	High Rigidity		
	Homopolymer		
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)	2.0	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	79		
Shore D, 15 sec	73		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	68.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5000	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	102	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	60	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	159	°C	
1.8 MPa, Unannealed, 3.20 mm	145	°C	
Vicat Softening Temperature	162	°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 Ignition Temperature (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	225 to 245	°C	
Front Temperature	235 to 255	°C	
Processing (Melt) Temp	195 to 260	°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.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Loading 1 (10 N)		

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