

PROTEQ™ H15SQ9

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H15SQ9 is a heat stabilised 45% highly coupled 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™ H15USQ9).

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Heat Stabilized		
	Homopolymer		
	Medium Heat Resistance		
	Medium Rigidity		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	81		
Shore D, 15 sec	76		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	112	MPa	
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	8500	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	90	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	162	°C	
1.8 MPa, Unannealed, 3.20 mm	152	°C	
Vicat Softening Temperature	165	°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 60695.2.12
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	240 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. 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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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



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