

PROTEQ™ H10T4

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H10T4 is a medium flow 20% Talc filled grade of polypropylene homopolymer.

Note: The letter U in the product name indicates that UV stabiliser has been added (PROTEQ™ H16UT4)

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Homopolymer		
	Medium Flow		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	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)	1.2	%	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)	31.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	30	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2100	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	48.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	40	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	135	°C	
1.8 MPa, Unannealed, 3.20 mm	70.0	°C	
CLTE - Flow	8.0E-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	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. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |

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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

