

PROTEQ™ H16ST6

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H16ST6 is a medium melt flow 30% talc filled and heat stabilised grade of polypropylene homopolymer. This grade has been highly heat stabilised for continuous service temperatures up to 120 deg C and features excellent retainment of mechanical properties after 500 hours heat ageing at 150 deg C. PROTEQ™ H16ST6 has been designed for automotive engine bay and powertrain applications.

General Information	
Filler / Reinforcement	Talc,30% Filler by Weight
Additive	Heat Stabilizer
Features	Good Heat Aging Resistance
	Heat Stabilized
	Homopolymer
	Medium Flow
Uses	Automotive Applications
	Automotive Under the Hood

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)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	76		
Shore D, 15 sec	70		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	31.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	25	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3100	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	50.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	50	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	133	°C	
1.8 MPa, Unannealed, 3.20 mm	72.0	°C	
CLTE - Flow	7.0E-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	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		

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