

PROTEQ™ H16QM44

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H16QM44 is 40% glass fibre/mineral combination reinforced easy flow polypropylene homopolymer. This grade contains glass fibre reinforcement and mineral filler along with a coupling agent to achieve a good balance of properties for applications requiring rigidity and low warpage such as various types of automotive components.

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Features	Good Flow		
	Homopolymer		
	Low Warpage		
	Medium Rigidity		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	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)	0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	80		
Shore D, 15 sec	72		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	86.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	6530	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	125	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)	430	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	150	°C	
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	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. 2.0 mm/min
4. 2.0 mm/min

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