

PROTEQ™ H20QM21

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ H20QM21 is a medium melt flow polypropylene homopolymer containing 10% glass reinforcement and 5% talc filler. PROTEQ™ H20QM21 is designed to optimise easy die filling with suitable rigidity.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
	Talc,5.0% Filler by Weight		
Features	Good Stiffness		
	Homopolymer		
	Medium Flow		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	78		
Shore D, 15 sec	69		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	50.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3200	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	77.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	55	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	152	°C	
1.8 MPa, Unannealed, 3.20 mm	129	°C	
CLTE - Flow	3.6E-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	30.0 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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