

PROTEQ™ GRCH24ST8

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ GRCH24ST8 is a 40% mineral filled grade of polypropylene homopolymer which has been fully heat stabilised. This grade contains mineral in the form of talcum, enabling the use of ISO codes PP-TD40 or PP-TF40 to be applied.

General Information			
Filler / Reinforcement	Talc,40% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Homopolymer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	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	75		
Shore D, 15 sec	68		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	32.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	20	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	3150	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	51.0	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)	330	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	134	°C	
1.8 MPa, Unannealed, 3.20 mm	82.0	°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
Injection	Nominal Value	Unit	
Drying Temperature	85.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	

Rear Temperature	200 to 220	°C
Middle Temperature	210 to 230	°C
Front Temperature	220 to 240	°C
Processing (Melt) Temp	220 to 270	°C
Mold Temperature	50.0 to 80.0	°C
Injection Pressure	65.0 to 145	MPa
Injection Rate	Moderate	
Back Pressure	0.100 to 0.500	MPa
Screw Speed	40 to 50	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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