

PROTEQ™ G30H283

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ G30H283 is a 30% coupled glass fibre reinforced homopolymer polypropylene compound. This grade has a combination of high stiffness and tensile strength coupled with high impact strength and in addition is heat stabilised. These properties give the material excellent creep resistance and long term durability as well as high physical strength.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Chemically Coupled		
	Good Creep Resistance		
	Heat Stabilized		
	High Impact Resistance		
	High Stiffness		
	High Strength		
	Homopolymer		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	80.0	MPa	ASTM D638
Flexural Modulus ² (3.20 mm)	5500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	40	J/m	
0°C, 3.20 mm	55	J/m	
23°C, 3.20 mm	70	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	156	°C	
1.8 MPa, Unannealed, 3.20 mm	145	°C	
Vicat Softening Temperature	162	°C	ASTM D1525 ³
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	70.0 to 80.0	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	205 to 225	°C
Middle Temperature	225 to 245	°C
Front Temperature	235 to 255	°C
Processing (Melt) Temp	240 to 260	°C
Mold Temperature	40.0 to 70.0	°C
Injection Pressure	160 to 250	MPa
Injection Rate	Moderate-Fast	
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.	10 mm/min	
3.	Loading 1 (10 N)	

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