

PROTEQ™ GC30H255

Polypropylene Homopolymer

Marplex Australia Pty. Ltd.

Message:

PROTEQ™ GC30H255 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 contains stabilisers for metal deactivation and heat resistance. These properties give the material excellent creep resistance and long term durability as well as high physical strength.

Typical applications are automotive fans and fan shrouds.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer Metal Deactivator		
Features	Chemically Coupled Good Creep Resistance Heat Stabilized High Impact Resistance High Stiffness High Strength Homopolymer		
Uses	Automotive Applications		
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)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	79		
Shore D, 15 sec	73		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.20 mm)	80.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	3.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	5500	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	70	J/m	
0°C, 3.20 mm	75	J/m	
23°C, 3.20 mm	80	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	155	°C	
1.8 MPa, Unannealed, 3.20 mm	145	°C	
Vicat Softening Temperature	160	°C	ASTM D1525 ⁴
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	80.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	215 to 235	°C	
Middle Temperature	235 to 255	°C	
Front Temperature	245 to 275	°C	
Processing (Melt) Temp	230 to 280	°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

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|----|------------------|
| 1. | 50 mm/min |
| 2. | 5.0 mm/min |
| 3. | 10 mm/min |
| 4. | Loading 1 (10 N) |

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