

TRANSMARE® 19HGF30-1.003

Polypropylene Homopolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 19HGF30-1.003 is a black colored 30% glass fiber reinforced polypropylene homopolymer for injection molding purposes with very high stiffness and a good flow. This grade does not contain any traces of polyethylene.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Flow		
	Homopolymer		
	Ultra High Stiffness		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	4.5	g/10 min	
230°C/5.0 kg	25	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 4.00 mm, Injection Molded)	100	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm, Injection Molded)	3.5	%	ISO 527-2/50
Flexural Modulus ¹ (Injection Molded)	5700	MPa	ISO 178
Flexural Stress ² (Injection Molded)	133	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1A
-40°C, Injection Molded	8.3	kJ/m ²	
-20°C, Injection Molded	8.5	kJ/m ²	
0°C, Injection Molded	9.0	kJ/m ²	
23°C, Injection Molded	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1U
-30°C, Injection Molded	45	kJ/m ²	
23°C, Injection Molded	55	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A

-40°C, Injection Molded	10	kJ/m ²	
-20°C, Injection Molded	10	kJ/m ²	
0°C, Injection Molded	10	kJ/m ²	
23°C, Injection Molded	12	kJ/m ²	
Aging	Nominal Value	Unit	Test Method
Change in Charpy Unnotched Impact Strength - Injection Molded			ISO 188
-30°C	22	%	
23°C	3.0	%	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	154	°C	ISO 75-2/B
1.8 MPa, Unannealed	139	°C	ISO 75-2/A
Vicat Softening Temperature	160	°C	ISO 306/A
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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