

TRANSMARE® 19HGF40-1.003

Polypropylene Homopolymer

Transmare Compounding B.V.

Message:

TRANSMARE® 19HGF40-1.003 is a 40% glass fibre reinforced polypropylene homopolymer for injection moulding purposes with very high stiffness and good flow.

General Information			
Filler / Reinforcement	Glass Fiber,40% 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	1.22	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	18	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	78		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 4.00 mm)	120	MPa	ISO 527-2/50
Tensile Strain (Break, 4.00 mm)	3.0	%	ISO 527-2/50
Flexural Modulus ¹	8750	MPa	ISO 178
Flexural Stress ²	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/A
-40°C	8.5	kJ/m ²	
23°C	10	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-40°C	10	kJ/m ²	
23°C	13	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	156	°C	ISO 75-2/B
1.8 MPa, Unannealed	144	°C	ISO 75-2/A
Vicat Softening Temperature	161	°C	ISO 306/A

NOTE

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| 1. | 2.0 mm/min |
| 2. | 2.0 mm/min |

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