

Tecolen® HP10 GR20 NL

Polypropylene Homopolymer
Eurotec Engineering Plastics

Message:
PPHP, 20% glass fiber reinforced, natural

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Homopolymer		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP GF20		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	140	°C	ISO 75-2/A
Melting Temperature ¹	165 to 170	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	UL 94		
0.750 mm	HB		
1.60 mm	HB		
Injection	Nominal Value	Unit	
Hopper Temperature	< 60.0	°C	
Processing (Melt) Temp	200 to 240	°C	
Mold Temperature	20.0 to 50.0	°C	
Injection Rate	Slow-Moderate		
Holding Pressure	40.0 to 80.0	MPa	
Back Pressure	Low		

NOTE

1. 10 K/min

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