

Tecolen® CP10 GR50 NL

Polypropylene Copolymer
Eurotec Engineering Plastics

Message:
PPCP, 50% glass fiber reinforced, natural

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Copolymer		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PP GF50		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	15	kJ/m ²	
23°C	20	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	145	°C	ISO 75-2/A
Melting Temperature ¹	160 to 165	°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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