

Tecodur® PB70 GR50 BK002 CA01

Polybutylene Terephthalate + PET

Eurotec Engineering Plastics

Message:

PBT/PET, 50% glass fiber reinforced, heat & UV stabilized, black

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good UV Resistance		
	Heat Stabilized		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	(PBT+PET) GF50		
Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Moisture Content	< 0.080	%	ISO 15512
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	19000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	150	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	9.0	kJ/m²	
23°C	10	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Melting Temperature ¹	225 to 255	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093

Volume Resistivity	1.0E+16	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	
Drying Temperature	120	°C	
Drying Time	4.0 to 6.0	hr	
Hopper Temperature	50.0 to 70.0	°C	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	60.0 to 110	°C	
Injection Rate	Fast		
Holding Pressure	40.0 to 80.0	MPa	
NOTE			
1.	10 K/min		

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