

Tecodur® PB70 GR23 BK EF

Polybutylene Terephthalate
Eurotec Engineering Plastics

Message:

PBT, 23% glass fiber reinforced, black, suitable for electrostatic powder coating, gas injection grade

General Information			
Filler / Reinforcement	Glass Fiber,23% Filler by Weight		
Uses	Coating Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Electrostatic Spray Coating		
	Injection Molding		
Resin ID (ISO 1043)	PBT GF23		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Moisture Content	< 0.080	%	ISO 15512
Back Pressure	Low		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-30°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.60 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	

Hopper Temperature	50.0 to 70.0	°C
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	60.0 to 100	°C
Injection Rate	Fast	
Holding Pressure	40.0 to 80.0	MPa

NOTE

1. 10 K/min

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