

Tecodur® PB70 GR15 BK002 XA21

Polybutylene Terephthalate + PET

Eurotec Engineering Plastics

Message:

PBT/PET, 15% glass fiber reinforced, flame retardant - halogen (RoHS compliant), heat stabilized, black

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Heat Stabilized		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	(PBT+PET) GF15 FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.53	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)	6500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	7.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°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
Comparative Tracking Index (Solution A)	225	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
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	240 to 270	°C	
Mold Temperature	60.0 to 110	°C	
Injection Rate	Moderate-Fast		
Holding Pressure	40.0 to 80.0	MPa	
NOTE			

1. 10 K/min

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