

Tecopet® PT74 GR45 BK002 PR

Polyethylene Terephthalate
Eurotec Engineering Plastics

Message:
PET, 45% glass fiber reinforced, high heat stabilized, black

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PET GF45		
Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.80	%	
Flow	0.20	%	
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)	16000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	140	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/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	225	°C	ISO 75-2/A
Melting Temperature ¹	250	°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 to 140	°C
Drying Time	4.0	hr
Hopper Temperature	50.0 to 70.0	°C
Processing (Melt) Temp	270 to 290	°C
Mold Temperature	90.0 to 120	°C
Injection Rate	Fast	
Holding Pressure	60.0 to 100	MPa
NOTE		
1.	10 K/min	

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