

Tecopet® PT74 CR30 BK111 PR

Polyethylene Terephthalate
Eurotec Engineering Plastics

Message:

PET, 30% carbon fiber reinforced, black, fast crystallization grade

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PET CF30		
Physical	Nominal Value	Unit	Test Method
Density	1.44	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)	24000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	180	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	195	°C	ISO 75-2/A
Melting Temperature ¹	250	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+3	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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