

# Bergadur™ PB40 CF30 BK002

Polybutylene Terephthalate

PolyOne Corporation

Message:

Bergadur™PB40 CF30 BK002 is a polybutene terephthalate (PBT) product, which contains a 30% carbon fiber reinforced material. It can be processed by injection molding and is available in the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	140	MPa	ASTM D638
Flexural Modulus <sup>2</sup>	18000	MPa	ASTM D790
Flexural Strength <sup>3</sup>	230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	210	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 - 1.0E+4	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		Internal method
Injection	Nominal Value	Unit	
Drying Temperature	110 - 130	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	240 - 270	°C	
Middle Temperature	240 - 270	°C	
Front Temperature	240 - 270	°C	
Mold Temperature	75.0 - 95.0	°C	
Injection instructions			
Injection Pressure: MED-HIGHHold Pressure: MED-HIGHScrew Speed: MODERATEBack Pressure: LOW			
NOTE			
1.	5.0 mm/min		
2.	1.3 mm/min		
3.	1.3 mm/min		

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