

Properties

PBG276

Carbon fiber-reinforced PP compound (CF20%)

Properties	Test methods	Test conditions	Units	
Tensile strength	ISO 527	-	MPa	50
Flexural strength	ISO 178	-	MPa	75
Flexural modulus	ISO 178	-	MPa	10500
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m2	4.5
Deflection temperature under load	ISO 75	0.45MPa	deg C	143
Volume resistivity	ASTM D991	-	ohm*m	5E-2
Surface resistivity	ASTM D991	-	ohm	1E2
Density	ISO 1183	-	g/cm3	1.01

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.

Typical settings for processing

Preliminary drying	Barrel temperature(deg C)				Screw rotation (rpm)	Back pressure (MPa)	Mold temperature (deg C)
	Nozzle	Front	Middle	Back			
3-5hrs 80-120deg C	180-230	180-230	160-210	140-190	70-90	5-20	40-60

[Alert Notes]

*Preliminary drying under the conditions above is required, although PP resin hardly absorbs moisture.