

Properties**BM5544(Type K)**

Carbon fiber/Glass fiber-reinforced flame-retardant PBT/ABS resin (CF/GF20%, UL94 V-0)

Conductive

Properties	Test methods	Test conditions	Units	
Mold shrinkage	ASTM D955	-	%	0.2-0.4
Tensile strength	ISO 527	-	MPa	130
Flexural strength	ISO 178	-	MPa	205
Flexural modulus	ISO 178	-	MPa	11000
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m2	6
Deflection temperature under load	ISO 75	1.80MPa	deg C	155
Flammability	UL94	-	-	V-0/1.5mm (BK) V-1/1.2mm (BK)
Volume resistivity	Daicel method	-	ohm*m	1E0
Surface resistivity	Daicel method	-	ohm	4E2
Density	ISO 1183	-	g/cm3	1.40

Note

- Values are typical, not quality assured.
- UL recognition File No. of Daicel Polymer is E47773.
- Resistivity was measured with two-terminal technique (Daicel method).

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	230-250	240-250	220-240	190-230	50-90	5-20	60-80