

## Properties

### BM554K

COLOR No. 53930

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

Conductive

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Daicel method	-	%	0.1-0.3
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/m <sup>2</sup>	6
Deflection temperature under load	ISO 75	1.80MPa	deg C	155
Flammability	UL94	-	-	V-0/1.2mm
Volume resistivity	Daicel method	-	ohm*m	1E0
Surface resistivity	Daicel method	-	ohm	4E2
Density	ISO 1183	-	g/cm <sup>3</sup>	1.40

Note

- Test methods such as ISO standards are fully or almost compliant with the standards.
- Values are typical, not quality assured.
- Resistivity was measured with two-terminal technique (Daicel method).
- UL recognition File No. is E47773.
- The colorant formulations are restricted for each UL certified color. Please contact us for more information.

### 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	240-260	220-240	200-220	50-100	5-20	40-80