

Properties

VCF20(Type E)

Carbon fiber-reinforced ABS resin (CF20%)

Conductive

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Daicel method	-	%	0.1-0.4
Tensile strength	ISO 527	-	MPa	50
Flexural strength	ISO 178	-	MPa	90
Flexural modulus	ISO 178	-	MPa	9500
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m2	6
Rockwell hardness	ISO 2039	-	-	R112
Deflection temperature under load	ISO 75	1.80MPa	deg C	97
Flammability	UL94	-	-	HB
Volume resistivity	Daicel method	-	ohm*m	3E-2
Surface resistivity	Daicel method	-	ohm	2E1
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm3	1.15

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 80-85deg C	230-250	230-250	210-230	190-210	40-60	10-20	60-80