

Properties

VCF20(Type C)

Carbon fiber-reinforced ABS resin (CF20%, UL94 HB)

Conductive

Type: Stiffness, toughness

Properties	Test methods	Test conditions	Units	
Mold shrinkage	ASTM D955	-	%	0.1-0.4
Tensile strength	ISO 527	-	MPa	110
Flexural strength	ISO 178	-	MPa	180
Flexural modulus	ISO 178	-	MPa	13000
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	102
Flammability	UL94	-	-	HB
Volume resistivity	Daicel method	-	ohm*m	2E-2
Surface resistivity	Daicel method	-	ohm	5E0
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm3	1.14

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