

CEVIAN-V

ABS resin

Technical Information

TI-05083

Properties

VCF20(E)

Carbon fiber-reinforced ABS resin (CF20%)

Conductive

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Our standard	-	%	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/m ²	6
Rockwell hardness	ISO 2039	-	-	R112
Deflection temperature under load	ISO 75	1.80MPa	deg C	97
Flammability	UL94	-	-	HB
Volume resistivity	Our standard	-	ohm*m	3E-2
Surface resistivity	Our standard	-	ohm	2E+1
Water absorption	ISO 62	-	%	0.3
Density	ISO 1183	-	g/cm ³	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).

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