

NOVALLOY A series

PA/ABS resin

Technical Information

TI-05080

Properties

AC2604(P)

Carbon fiber-reinforced PA/ABS resin (CF20%)

Conductive

Properties	Test methods	Test conditions	Units	
Mold shrinkage	Our standard	-	%	0.2-0.5
Tensile strength	ISO 527	-	MPa	150
Flexural strength	ISO 178	-	MPa	240
Flexural modulus	ISO 178	-	MPa	13000
Notched Charpy impact strength	ISO 179/1eA	23 deg C	kJ/m ²	10
Deflection temperature under load	ISO 75	1.80MPa	deg C	200
Coefficient of linear thermal expansion	ISO 11359	MD	X1E-5/deg C	1
Coefficient of linear thermal expansion	ISO 11359	TD	X1E-5/deg C	4
Flammability	UL94	-	-	HB
Volume resistivity	Our standard	-	ohm*m	2E-2
Surface resistivity	Our standard	-	ohm	5E+0
Density	ISO 1183	-	g/cm ³	1.17

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			
4-5hrs 90-100deg C	230-250	240-260	230-250	180-210	50-80	10-20	70-90

Novacel Co., Ltd.

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