Polyimide CEPLA & SA < lineup>

***Short delivery time *High quality**

* Bpda-based polyimide resin of Shin-Nissan Diamond Industry Co., Ltd., which has strengths in price stability, We have a lineup with each feature.

Cepla: Standard grade of the SEPRA series. It has been adopted in a wide range of fields from the semiconductor field to the aerospace industry.

Extra: The highest heat-resistant grade in the SEPRA series. It can withstand harsh use at high temperatures.

SA101 : Has a higher heat resistance temperature than standard grades and has excellent low water absorption and low outgassing characteristics.

We have a lot of experience in liquid crystal and semiconductor manufacturing equipment.

SA201 : A high-cost performance grade with excellent heat resistance temperature. It can be used widely in general-purpose.

GI./GII: A sliding grade that contains graphite in a standard-grade sepra. (*Graphite black)

SA101D : Conductive grade for semiconductor devices and various electronic devices. (*Black with carbon)

	Cepla	Extra	SA101	SA201	G I	G II	SA101D
Heat resistant temperature (° C)	360	500	470	486	360	360	—
Bending Strength(MPa)	161	101	135	109	126	93	95
Heat resistance	○	◎	◎	◎	○	○	○
Processability	◎	△	○	○	○	○	○
Size	◎	△	△	○	○	○	△
Price	○	△	△	◎	○	○	△
Dimensional stability	○	◎	◎	△	○	○	○
Absorbent	○	◎	◎	△	○	△	○
Bendability	◎	○	○	○	◎	◎	○
Surface Resistance (Ω)	9.4×10^{16}	7.9×10^{16}	8.5×10^{16}	1.6×10^{15}	10^{12}以上	10^{12}以上	4.5×10^{4}
Volume intrinsic resistance (Ω-cm)	1.8×10^{16}	1.9×10^{16}	1.9×10^{16}	7.1×10^{15}	—	—	1.4×10^{3}

*Comparison of company data

◆ Characteristics of BPDA polyimide

- **Very high heat resistance**
- **Excellent mechanical properties**
- **Good machinability**
- **Excellent insulation resistance and low dielectricity**
- **Chemical resistance and low water absorption**

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