

# LIFEL™ Sheets

**Electron LIFEL™ Sheets Are Made of a Conductive Sheet Material that Is Ideal for Vacuum (Compressed Air) Forming**

## Features

- ① Consistent and stable conductive properties
- ② Lower incidence of carbon loss in normal use
- ③ Designed to be compliant with Green Purchasing (mercury, cadmium, hexavalent chromium, lead, and bromic flame retardant are not used)
- ④ Can be used at temperatures of between 80°C and 120°C under certain conditions



**Physical Properties Table**

|                    |                                    | Units             | LEC-21<br>(Conductive<br>LIFEL Sheet) |
|--------------------|------------------------------------|-------------------|---------------------------------------|
| Density            |                                    | Kg/m <sup>3</sup> | 1,160                                 |
| Surface resistance | Sheet                              | Ω/sq.             | 3.8 × 10 <sup>5</sup>                 |
|                    | Formed (for<br>reference purposes) | Ω/sq.             | 9.3 × 10 <sup>4</sup>                 |
| Tensile strength   | MD                                 | M Pa              | 33.6                                  |
|                    | TD                                 | M Pa              | 22.8                                  |
| Elongation         | MD                                 | %                 | 23.0                                  |
|                    | TD                                 | %                 | 21.0                                  |
| Tear strength      | MD                                 | N/mm              | 172.7                                 |
|                    | TD                                 | N/mm              | 151.3                                 |

The above data represent experimental results and do not guarantee specific performance levels under actual usage.

## Measuring Methods

- Density: JIS K7112 (method-A), water displacement method
- Surface resistance: JIS K6911, applied voltage 10 v, electrification time 30 sec
- Tensile strength: JIS K-6301 (method-A)
- Elongation: JIS K-7127, No. 2 test piece, tensile speed: 200 mm/min
- Tear strength: JIS K-7128 (method-C), tensile speed: 200 mm/min

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