

XYRON™ for 5G base-station antenna covers

| Property | Units | Test Method | Test condition | XYRON™ 443Z | Under development XYRON™ 345Z | Under development XYRON™ AA181-7 | Si-PC EXL9330 | Si-PC EXL9134 |
|---|-------------------|-------------|----------------|-----------------|----------------------------------|-------------------------------------|------------------|------------------|
| Specific Gravity | | JIS K7112 | 23°C | 1.10 | 1.18 | 1.08 | 1.19 | 1.19 |
| Temperature of Deflection Under Load (DTUL) | °C | ISO 75-1 | 1.8MPa | 108 | 96 | 108 | 124 | 118 |
| Flammability | - | UL94 | - | V-0 (0.75mm) | V-0 eqiuv. (1.5mm) | V-0 eqiuv. (1.5mm) | V-0 (0.8mm) | V-0 (1.5mm) |
| Molding Shrinkage | % | ASAHI KASEI | 150×150×2mm | 0.6/0.8 | 0.6/0.8 | — | 0.7/0.8 | - |
| Dielectric Constant | - | SPDR method | 2.5GHz | 2.7 | 2.9 | 2.6 | 3.0 | - |
| | | | 10GHz | 2.7 | 2.9 | 2.6 | 2.9 | - |
| Dissipation Factor | 2.5GHz | | 0.0042 | 0.005 | 0.0010 | 0.0063 | - | |
| | 10GHz | | 0.0046 | 0.005 | 0.0017 | 0.0078 | - | |
| Tensile Strength | MPa | ISO 527-2 | 23°C/50%RH | 62 | 59 | 54 | 55 | 57 |
| (Nominal)Tensile Strain | % | ISO 527-2 | 23°C/50%RH | 14 | 12 | 14 | 60 | 110 |
| Flexural Strength | MPa | ISO 178 | 23°C/50%RH | 96 | 96 | 86 | 89 | 87 |
| Flexural Modulus | MPa | ISO 178 | 23°C/50%RH | 2,200 | 2,470 | 2,000 | 2,200 | 2,100 |
| Charpy Impact Strength | kJ/m ² | ISO 179 | 23°C/50%RH | 42 | 35 | 46 | 75 | 70 |

Note : Data shown are typical values obtained by proper testing methods and should not be used for specification purpose.
Please use these data for selecting the most appropriate grade suitable for specific usage.
These data may be changed because of improvement in properties.