

# Akulon<sup>®</sup> K224-PG3

## PA6-I-GF15

15% Glass Reinforced, Impact Modified

Print Date: 2024-03-27

| PROPERTIES                                   | TYPICAL DATA      | UNIT              | TEST METHOD       |
|--|-------------------|-------------------|-------------------|
| <b>RHEOLOGICAL PROPERTIES</b>                |                   |                   |                   |
|  | <b>DRY / COND</b> |                   |                   |
| Molding shrinkage [parallel]                 | 0.4 / *           | %                 | Sim. to ISO 294-4 |
| Molding shrinkage [normal]                   | 1 / *             | %                 | Sim. to ISO 294-4 |
| <b>MECHANICAL PROPERTIES</b>                 |                   |                   |                   |
|  | <b>DRY / COND</b> |                   |                   |
| Tensile modulus                              | 5400 / 2600       | MPa               | ISO 527-1/-2      |
| Stress at break                              | 105 / 60          | MPa               | ISO 527-1/-2      |
| Strain at break                              | 4 / 15            | %                 | ISO 527-1/-2      |
| Charpy impact strength (+23°C)               | 70 / 90           | kJ/m <sup>2</sup> | ISO 179/1eU       |
| Charpy impact strength (-30°C)               | 70 / 70           | kJ/m <sup>2</sup> | ISO 179/1eU       |
| Charpy notched impact strength (+23°C)       | 16 / 25           | kJ/m <sup>2</sup> | ISO 179/1eA       |
| Charpy notched impact strength (-30°C)       | 9 / 9             | kJ/m <sup>2</sup> | ISO 179/1eA       |
| <b>THERMAL PROPERTIES</b>                    |                   |                   |                   |
|  | <b>DRY / COND</b> |                   |                   |
| Temp. of deflection under load (1.80 MPa)    | 185 / *           | °C                | ISO 75-1/-2       |
| Temp. of deflection under load (0.45 MPa)    | 205 / *           | °C                | ISO 75-1/-2       |
| Coeff. of linear therm. expansion (parallel) | 0.3 / *           | E-4/°C            | ISO 11359-1/-2    |
| Coeff. of linear therm. expansion (normal)   | 0.8 / *           | E-4/°C            | ISO 11359-1/-2    |
| Burning Behav. at 1.5 mm nom. thickn.        | HB / *            | class             | IEC 60695-11-10   |
| Thickness tested                             | 1.5 / *           | mm                | IEC 60695-11-10   |
| <b>ELECTRICAL PROPERTIES</b>                 |                   |                   |                   |
|  | <b>DRY / COND</b> |                   |                   |
| Relative permittivity (100Hz)                | 3.6 / 14          | -                 | IEC 62631-2-1     |
| Relative permittivity (1 MHz)                | 3.3 / 4.5         | -                 | IEC 62631-2-1     |

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## Property Data

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| <i>PROPERTIES</i>              | <i>TYPICAL DATA</i>      | <i>UNIT</i>       | <i>TEST METHOD</i> |
|--------------------------------|--------------------------|-------------------|--------------------|
| Dissipation factor (100 Hz)    | 100 / 1500               | E-4               | IEC 62631-2-1      |
| Dissipation factor (1 MHz)     | 180 / 1200               | E-4               | IEC 62631-2-1      |
| Volume resistivity             | >1E13 / >1E13            | Ohm*m             | IEC 62631-3-1      |
| Surface resistivity            | - / >1E15                | Ohm               | IEC 62631-3-2      |
| Electric strength              | 25 / 20                  | kV/mm             | IEC 60243-1        |
| Comparative tracking index     | * / 500                  | V                 | IEC 60112          |
| <b><i>OTHER PROPERTIES</i></b> | <b><i>DRY / COND</i></b> |                   |                    |
| Water absorption               | 6.8 / *                  | %                 | Sim. to ISO 62     |
| Humidity absorption            | 2 / *                    | %                 | Sim. to ISO 62     |
| Density                        | 1200 / -                 | kg/m <sup>3</sup> | ISO 1183           |

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