

# Akulon® K224-HG2

## PA6-GF10

10% Glass Reinforced, Heat Stabilized

| Properties                                   | Typical Data | Unit              | Test Method     |
|----------------------------------------------|--------------|-------------------|-----------------|
| <b>Rheological properties</b>                |              |                   |                 |
|                                              | dry / cond   |                   |                 |
| Molding shrinkage (parallel)                 | 0.4 / *      | %                 | ISO 294-4       |
| Molding shrinkage (normal)                   | 1.3 / *      | %                 | ISO 294-4       |
| <b>Mechanical properties</b>                 |              |                   |                 |
|                                              | dry / cond   |                   |                 |
| Tensile modulus                              | 4500 / 2900  | MPa               | ISO 527-1/-2    |
| Stress at break                              | 100 / 68     | MPa               | ISO 527-1/-2    |
| Strain at break                              | 4 / 9        | %                 | ISO 527-1/-2    |
| Flexural modulus                             | 4200 / -     | MPa               | ISO 178         |
| Flexural strength                            | 150 / -      | MPa               | ISO 178         |
| Charpy notched impact strength (+23°C)       | 3.8 / 7      | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy notched impact strength (-30°C)       | 3 / 3.1      | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>Thermal properties</b>                    |              |                   |                 |
|                                              | dry / cond   |                   |                 |
| Melting temperature (10°C/min)               | 220 / *      | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa)    | 195 / *      | °C                | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa)    | 210 / *      | °C                | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | 0.35 / *     | E-4/°C            | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | 1.2 / *      | 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 |
| Burning Behav. at 3.0 mm nom. thickn.        | HB / *       | class             | IEC 60695-11-10 |
| Thickness tested                             | 3 / *        | mm                | IEC 60695-11-10 |
| Burning Behav. at 0.75 mm nom. thickn.       | HB / *       | class             | IEC 60695-11-10 |



## Property Data

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| Properties              | Typical Data | Unit              | Test Method     |
|-------------------------|--------------|-------------------|-----------------|
| Thickness tested        | 0.75 / *     | mm                | IEC 60695-11-10 |
| <b>Other properties</b> |              |                   |                 |
|                         | dry / cond   |                   |                 |
| Water absorption        | 7.7 / *      | %                 | Sim. to ISO 62  |
| Humidity absorption     | 2.3 / *      | %                 | Sim. to ISO 62  |
| Density                 | 1210 / *     | kg/m <sup>3</sup> | ISO 1183        |

