

# Akulon<sup>®</sup> SG-KGS6

## PA66-GF30 FR(40)

30% Glass Reinforced, Halogen free and free of red phosphorous

| <i>PROPERTIES</i>                         | <i>TYPICAL DATA</i> | <i>UNIT</i>       | <i>TEST METHOD</i> |
|---|---------------------|-------------------|--------------------|
| <b><i>RHEOLOGICAL PROPERTIES</i></b>      |                     |                   |                    |
|   | <i>DRY / COND</i>   |                   |                    |
| Molding shrinkage [parallel]              | 0.2 / *             | %                 | Sim. to ISO 294-4  |
| Molding shrinkage [normal]                | 0.8 / *             | %                 | Sim. to ISO 294-4  |
| <b><i>MECHANICAL PROPERTIES</i></b>       |                     |                   |                    |
|   | <i>DRY / COND</i>   |                   |                    |
| Tensile modulus                           | 11000 / 8500        | MPa               | ISO 527-1/-2       |
| Stress at break                           | 150 / 115           | MPa               | ISO 527-1/-2       |
| Strain at break                           | 2.8 / 3.2           | %                 | ISO 527-1/-2       |
| Charpy impact strength (+23°C)            | 63 / -              | kJ/m <sup>2</sup> | ISO 179/1eU        |
| Charpy notched impact strength (+23°C)    | 9 / -               | kJ/m <sup>2</sup> | ISO 179/1eA        |
| <b><i>THERMAL PROPERTIES</i></b>          |                     |                   |                    |
|   | <i>DRY / COND</i>   |                   |                    |
| Melting temperature (10°C/min)            | 260 / *             | °C                | ISO 11357-1/-3     |
| Temp. of deflection under load (1.80 MPa) | 245 / *             | °C                | ISO 75-1/-2        |
| Burning Behav. at 1.5 mm nom. thickn.     | V-0 / *             | class             | IEC 60695-11-10    |
| Thickness tested                          | 1.5 / *             | mm                | IEC 60695-11-10    |
| Burning Behav. at 3.0 mm nom. thickn.     | V-0 / *             | class             | IEC 60695-11-10    |
| Thickness tested                          | 3 / *               | mm                | IEC 60695-11-10    |
| Burning Behav. at 0.4 mm nom. thickn.     | V-0 / *             | class             | IEC 60695-11-10    |
| Thickness tested                          | 0.4 / *             | mm                | IEC 60695-11-10    |
| Burning Behav. at 0.75 mm nom. thickn.    | V-0 / *             | class             | IEC 60695-11-10    |
| Thickness tested                          | 0.75 / *            | mm                | IEC 60695-11-10    |
| Oxygen index                              | 32 / *              | %                 | ISO 4589-1/-2      |

*Property Data (Provisional)*

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|-------------------------------------|---------------------|-------------------|--------------------|
| <b><i>ELECTRICAL PROPERTIES</i></b> |                     |                   |                    |
| Electric strength                   | 36 / 32             | kV/mm             | IEC 60243–1        |
| Comparative tracking index          | 600 / –             | V                 | IEC 60112          |
| <b><i>OTHER PROPERTIES</i></b>      |                     |                   |                    |
| Water absorption                    | 4.3 / *             | %                 | Sim. to ISO 62     |
| Humidity absorption                 | 1.6 / *             | %                 | Sim. to ISO 62     |
| Density                             | 1440 / –            | kg/m <sup>3</sup> | ISO 1183           |