



# Preliminary Data sheet

Tailor made Engineering Plastic

## Product: Kayflam PA6 101-FR/GF25 Black 94110

Injection moulding type reinforced 25 % glass fibres, Halogen free flame retardant

| TYPICAL PROPERTIES ①                              | Standard          | Unit                    | TYPICAL VALUE |             |
|---|-------------------|-------------------------|---------------|-------------|
|   |                   |                         | Dry           | Conditioned |
| <b>PHYSICAL:</b>                                  |                   |                         |               |             |
| Density   | ISO 1183          | g/cm <sup>3</sup>       | 1.34          | --          |
| Moisture absorption (23°C / 50% RH)               | ISO 62            | %                       |               |             |
| Melt Volume Rate, MVR at 275°C/5kg                | ISO 1133          | cm <sup>3</sup> /10 min |               | --          |
| Filler content                                    |                   | %                       | 25            | --          |
| <b>MECHANICAL:</b>                                |                   |                         |               |             |
| Tensile Modulus                                   | 23°C ISO 527 -2   | Mpa                     | 9400          | 5000        |
| Tensile Stress at break                           | 23°C ISO 527 -2   | Mpa                     | 140           | 80          |
| Tensile Strain, yield                             | 23°C ISO 527 -2   | %                       | 3             | 6           |
| Flexural Modulus                                  | 23°C ISO 178/A    | MPA                     | 8200          | 4000        |
| <b>IMPACT:</b>                                    |                   |                         |               |             |
| Izod Impact, notched                              | 23°C ISO 180 - 1A | KJ/m <sup>2</sup>       | 50            |             |
| Charpy impact unnotched                           | 23°C ISO 179      | KJ/m <sup>2</sup>       |               | --          |
| Charpy notched impact strength                    | 23°C ISO 179      | KJ/m <sup>2</sup>       | < 10          | --          |
| <b>THERMAL:</b>                                   |                   |                         |               |             |
| Vicat softening temperature                       | ISO 306           | °C                      | 205           | --          |
| Heat deflection temperature HDT A                 | ISO 75            | °C                      |               | --          |
| Flammability UL 94                                | UL 94             | 1.6 mm                  | V-0           | --          |
| <b>ELECTRICAL:</b>                                |                   |                         |               |             |
| Volume Resistivity                                | IEC 60093         | Ohm-cm                  |               |             |
| Dielectric Strength in oil 0,8 mm                 | IEC 60243         | KV/mm                   |               |             |
| <b>PROCESSING PARAMETERS / Injection moulding</b> |                   |                         |               |             |
| Drying Temperature                                |                   | °C                      | 80            |             |
| Drying Time                                       |                   | Hrs                     | 2 - 6         |             |
| Melt Temperature                                  |                   | °C                      | 270 - 290     |             |
| Mould Temperature                                 |                   | °C                      | 80 -120       |             |

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① Typical values only. Variations within normal tolerances are possible for various colours. All values are measured in line with ISO 1874 preparation of test specimens and determination of properties. All properties are to our best knowhow.