



Preliminary Data sheet

Tailor made Engineering Plastic

Product: Kaycom PA6 100/160-P natural 00100

Injection moulding type, non-reinforced

| TYPICAL PROPERTIES ① | Standard | Unit | TYPICAL VALUE | |
|---------------------------------------------------|-------------------|-------------------------|---------------|-------------|
| | | | Dry | Conditioned |
| PHYSICAL: | | | | |
| Density | ISO 1183 | g/cm ³ | 1.14 | -- |
| Moisture absorption (23°C / 50% RH) | ISO 62 | % | | |
| Melt Volume Rate, MVR at 275°C/5kg | ISO 1133 | cm ³ /10 min | | -- |
| Filler content | | % | 0 | -- |
| MECHANICAL: | | | | |
| Tensile Modulus | 23°C ISO 527 -2 | Mpa | 3200 | 1000 |
| Tensile Stress at break | 23°C ISO 527 -2 | Mpa | 80 | 40 |
| Tensile Strain, yield | 23°C ISO 527 -2 | % | 4 | 20 |
| Flexural Modulus | 23°C ISO 178/A | MPA | 2900 | 850 |
| IMPACT: | | | | |
| Izod Impact, notched | 23°C ISO 180 - 1A | KJ/m ² | -- | --- |
| Charpy impact unnotched | 23°C ISO 179 | KJ/m ² | NB! | NB! |
| Charpy notched impact strength | 23°C ISO 179 | KJ/m ² | < 10 | 20 |
| THERMAL: | | | | |
| Vicat softening temperature | ISO 306 | °C | 200 | -- |
| Heat deflection temperature HDT A | ISO 75-1,2 | °C | 160 | -- |
| Flammability UL 94 | UL 94 | mm | HB | -- |
| ELECTRICAL: | | | | |
| Volume Resistivity | IEC 60093 | Ohm-cm | | |
| Dielectric Strength in oil 0,8 mm | IEC 60243 | KV/mm | | |
| PROCESSING PARAMETERS / Injection moulding | | | | |
| Drying Temperature | | °C | 80 | |
| Drying Time | | Hrs | 4 - 10 | |
| Melt Temperature | | °C | 260 - 280 | |
| Mould Temperature | | °C | 80 -100 | |

Version: 7 April 2014

① Typical values only. Variations within normal tolerances are possible for various colours. They are based on our general experience and given in good faith, but we are unable to accept responsibility in respect of factors which are outside our knowledge or control

Kays Kft. Quality system is validated / certificated to ISO 9001 - 2008 by TÜVReinland InterCert Kft.