

# K100

## INJECTION MOULDING PLASTIC



### Description

K100 injection moulding plastic used for HoseTag / ChainTag / Sleeve holder / Round label holder.

### Physical data

#### PHYSICAL

| Typical          | Condition    | Standard | Unit                | Value |
|------------------|--------------|----------|---------------------|-------|
| Density          |              | ISO 1183 | g / cm <sup>3</sup> | 1.14  |
| Water absorption | T=23°C / sat | ISO 62   | %                   | 10    |

#### MECHANICAL

|                         |             |            |                     |      |
|-------------------------|-------------|------------|---------------------|------|
| Tensile modulus         | 1 mm / min  | ISO 527    | MPa                 | 3100 |
| Tensile strain at break | 50 mm / min | ISO 527    | %                   | 50   |
| Tensile stress at yield | 50 mm / min | ISO 527    | MPa                 | 85   |
| Flexural modulus        | 2 mm / min  | ISO 178    | MPa                 | 2700 |
| Izod impact notched     | +23 °C      | ISO 180/1A | kJ / m <sup>2</sup> | 5    |

#### THERMAL

|                       |            |         |    |     |
|-----------------------|------------|---------|----|-----|
| Melting point         |            | DSC     | °C | 220 |
| HDT                   | 0.45 MPa   | ISO 75  | °C | 180 |
| HDT                   | 1.80 MPa   | ISO 75  | °C | 70  |
| Vicat softening point | 50°C/h-50N | ISO 306 | °C | 205 |

#### ELECTRICAL

|                     |            |         |        |                  |
|---------------------|------------|---------|--------|------------------|
| Volume resistivity  |            | IEC 93  | Ohm cm | 10 <sup>15</sup> |
| Surface resistivity |            | IEC 93  | Ohm    | 10 <sup>13</sup> |
| CTI                 | Solution A | IEC 112 | V      | 600              |

#### FLAMMABILITY

|                |          |             |       |         |
|----------------|----------|-------------|-------|---------|
| Flammability   | 0.8 mm   | UL94        | Class | V2      |
| Flow wire test | 1 – 3 mm | CEI 695-2-1 | °C    | 750-850 |

#### Disclaimer

Values shown in this document are averages only. For legal reasons, we emphasize that the information on this data is available as is and that Altec gives no guarantees with respect to the accuracy and completeness nor with respect to interpretations made on the basis of this information.