



PRELIMINARY DATA SHEET

Witcom PPS/2C, based on branched Polyphenylenesulfide (PPS)

10% carbon fibres, conductive

| Properties | Test method | Unit | PPS/2C/3L1 |
|------------|-------------|------|------------|
|------------|-------------|------|------------|

Physical properties

| | | | |
|--|----------|-------------------|-----------|
| Specific gravity | ISO 1183 | g/cm ³ | 1,37 |
| Water absorption at saturation, 23 °C | ISO 62 | % | 0,07 |
| Humidity absorption, 23 °C/50 % RH | ISO 62 | % | 0,04 |
| Mould shrinkage (flow direction, 3 mm) | ISO 2577 | % | 0,2 - 0,6 |

Mechanical properties

| | | | |
|---------------------------------|-------------|-------------------|-------|
| Tensile strength (max.) | ISO 527 | MPa | 110 |
| Elongation at break | ISO 527 | % | 1 - 2 |
| Flexural strength | ISO 178 | MPa | 155 |
| Flexural modulus | ISO 178 | GPa | 9,3 |
| IZOD impact strength, notched | ISO 180/1eA | kJ/m ² | 5,0 |
| IZOD impact strength, unnotched | ISO 180/1eU | kJ/m ² | 25 |

Thermal properties

| | | | |
|--|-----------|--------------------|-----|
| Heat distortion temperature (1,81 MPa) | ISO 75 | °C | 250 |
| Relative temperature index, 3 mm with impact | UL 746B | °C | 200 |
| Coefficient of linear thermal expansion | ISO 11359 | K·10 ⁻⁵ | 3 |

Flammability

| | | | |
|-------------------|----------|---|-------------|
| Burning behaviour | ISO 1210 | - | V0 @ 3,0 mm |
| UL recognition | UL94 | - | - |

Electrical properties

| | | | |
|----------------------------|-------------|------|-----------------------------------|
| Surface resistivity | ASTM D257 | Ω/sq | 10 ² – 10 ⁶ |
| Volume resistivity | ASTM D257 | Ω·cm | 10 ² – 10 ⁶ |
| Comparative tracking index | IEC 60112 | V | - |
| Glow wire rating, 1,6 mm | IEC 695-2-1 | °C | - |

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