



PRELIMINARY DATA SHEET

Witcom PP-AS-HI, based on Polypropylene (PP)

anti-static, high impact

| Properties | Test method | Unit | PP-AS-HI |
|------------|-------------|------|----------|
|------------|-------------|------|----------|

Physical properties

| | | | |
|--|----------|-------------------|-----------|
| Specific gravity | ISO 1183 | g/cm ³ | 1,07 |
| Water absorption at saturation, 23 °C | ISO 62 | % | - |
| Humidity absorption, 23 °C/50 % RH | ISO 62 | % | - |
| Mould shrinkage (flow direction, 3 mm) | ISO 2577 | % | 1,5 - 2,0 |

Mechanical properties

| | | | |
|---------------------------------|-------------|-------------------|----------|
| Tensile strength (max.) | ISO 527 | MPa | 20 |
| Elongation at break | ISO 527 | % | >100 |
| Flexural strength | ISO 178 | MPa | 25 |
| Flexural modulus | ISO 178 | GPa | 0,8 |
| IZOD impact strength, notched | ISO 180/1eA | kJ/m ² | 14,0 |
| IZOD impact strength, unnotched | ISO 180/1eU | kJ/m ² | no break |

Thermal properties

| | | | |
|--|-----------|----------------------|------|
| Heat distortion temperature (1,81 MPa) | ISO 75 | °C | 45 |
| Relative temperature index, 3 mm with impact | UL 746B | °C | 75 |
| Coefficient of linear thermal expansion | ISO 11359 | K-1·10 ⁻⁵ | 15,0 |

Flammability

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

Electrical properties

| | | | |
|----------------------------|-------------|------|------------------------------------|
| Surface resistivity | ASTM D257 | Ω/sq | 10 ⁹ - 10 ¹¹ |
| Volume resistivity | ASTM D257 | Ω·cm | 10 ⁹ - 10 ¹¹ |
| Comparative tracking index | IEC 60112 | V | - |
| Glow wire rating, 1,6 mm | IEC 695-2-1 | °C | - |

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