

TECHNICAL DATA SHEET

Production:
SC SAVER ALUMEN SRL
Bucharest / Tecuci, Romania

Sales Management:
SAVER GmbH
Düren, Germany

PL6

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PL 6 is an electrical insulating material in form of rigid laminated sheets based on charged unsaturated polyester resin

- ◆ **Outstanding high mechanical strength even at elevated temperature**
- ◆ **Very first choice for machined parts with distinguished stiffness requirements**
- ◆ **Free from halogenes**

Form of delivery:

- Sheets in size 2.000 mm x 1.270 mm thickness from 1,0 mm to 40 mm
- Color: light grey

Typical applications:

- Parts for electrical insulation
- Railway engineering
- Transformers

| | Standard | Unit | Value |
|----------------------------------|-------------|-------------------|-------|
| Mechanical Properties | | | |
| Tensile strength | ISO 527 | MPa | 270 |
| E-modulus from tensile test | ISO 527 | GPa | 17 |
| Bending strength, RT | ISO 178 | MPa | 350 |
| Bending strength, 130°C | ISO 178 | MPa | 220 |
| E-modulus from bending, RT | ISO 178 | GPa | 20 |
| E-modulus from bending, 130°C | ISO 178 | GPa | 17 |
| Impact strength (IZOD) | ISO R180 | J/cm | 28 |
| Electrical Properties | | | |
| Comparative tracking index (CTI) | IEC 60 112 | class | 600 |
| Dielectric strength, in oil RT | IEC 60 243 | kV/mm | 9 |
| Breakdown voltage, in oil RT | IEC 60 243 | kV | 35 |
| Physical Properties | | | |
| Density | ISO 1183 | g/cm ³ | 1,9 |
| Max. operating temperature | --- | °C | 210 |
| Water absorption | ISO 62, M.1 | % | 0,4 |
| Flammability | UL-94 | class | V-0 |
| Thermal class | IEC 60 085 | class | F |

Note: Technical values indicated in this data sheet are intended for reference purpose only and are not binding.



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