

Schuladur PCR

Innovation supports environment



Cost efficient and eco balanced PBT/PET blends using post-consumer e-manufactured PET supporting you to find the right material for your projects:

- Better surface quality than PBT compounds
- Lower warpage than PBT compounds
- Superior processability
- Colourable on request
- Eco balanced due to reduction of CO₂ emission
- Globally available
- Trusted by numerous OEMs and Tier 1s

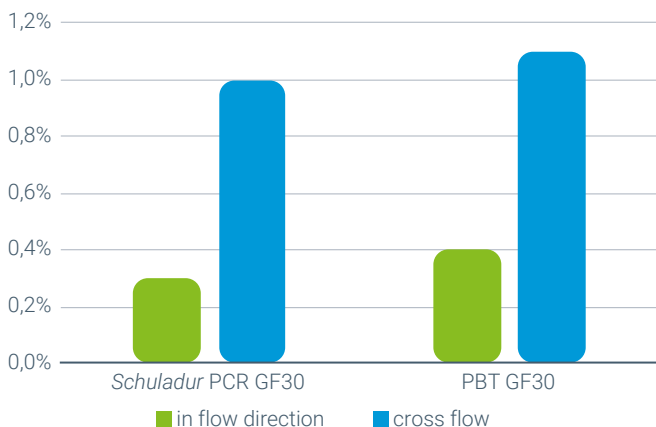
Some typical applications

- **Electrics:** connectors and coils, ignition systems
- **Chassis:** window motor housings, wiper motor housings, door lock systems, door modules
- **Exterior:** wiper systems, door handles
- **Interior:** sun roofs

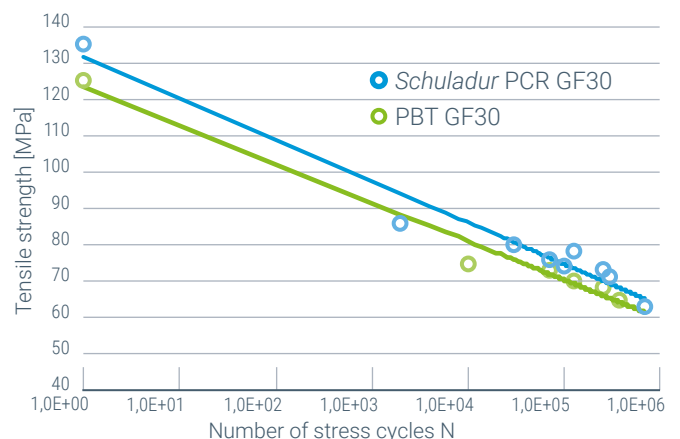
General properties of the Schuladur PCR family

| Properties | Units | Standards | Schuladur PCR | | | | |
|------------------------|-------------------|-------------------|---------------|-------|----------|--------|--------|
| | | | GF 15 | GF 20 | GF 20 HI | GF 30 | GF 45 |
| MFR, 260°C / 2,16 kg | g/cm ³ | DIN EN ISO 1133 | 18 | 24 | 12 | 20 | 11 |
| Tensile Modulus | MPa | ISO 527-2 | 6.700 | 8.100 | 6.200 | 11.000 | 15.500 |
| Tensile Stress | MPa | ISO 527-2 | 110 | 125 | 100 | 140 | 160 |
| Tensile Strain | % | ISO 527-2 | 2,4 | 2,5 | 3,5 | 2,1 | 1,7 |
| Charpy Notched 23°C | kJ/m ² | ISO 179/eA | 5 | 6 | 11 | 8 | 8 |
| Charpy Notched -30°C | kJ/m ² | ISO 179/eA | | 5 | 7 | 8 | |
| Charpy Unnotched 23°C | kJ/m ² | ISO 179/eU | 25 | 30 | 60 | 55 | 50 |
| Charpy Unnotched -30°C | kJ/m ² | ISO 179/eU | | 28 | 60 | 50 | |
| HDT @ 1,8 MPa | °C | ISO 75 | 186 | 200 | 190 | 205 | 208 |
| Flammability | | UL 94, 1,6 mm | HB | HB | HB | HB | HB |
| GWFI 1,50 mm | °C | DIN EN 60695-2-12 | | | - | 700 | 700 |
| GWFI 3,00 mm | °C | DIN EN 60695-2-12 | | | - | 800 | 800 |
| GWIT 1,50 mm | °C | DIN EN 60695-2-13 | | | 725 | 725 | 725 |
| GWIT 3,00 mm | °C | DIN EN 60695-2-13 | | | 800 | 825 | 825 |

Shrinkage behavior in comparison with standard PBT



Fatigue Resistance of Schuladur PCR



ABOUT US

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