

Technical Data Sheet



Play-Tec[®] UV-stabilized PCR bicolor

PE-HD / PE 300

Typical characteristics

- Physiologically safe
- Good machinability
- UV-resistant

Typical industries

- Sports & Leisure
- Playground
- Ship & Boatbuilding
- Working and Recreational Boats

Sustainability

- Post-Consumer-Recycling material used as base polymer for core and layer
- The use of recycled materials conserves valuable resources

| | Test method | Unit | Guideline value |
|--------------------------------------|--------------------|---------------------|-----------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | >0,96 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Flammability (Thickness 3 - 10 mm) | DIN 4102 | | B2 |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >25 |
| Elongation at yield stress | DIN EN ISO 527 | % | >8 |
| Elongation at break | DIN EN ISO 527 | % | >235 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >1200 |
| Notched impact strength | DIN EN ISO 11542 | | / |
| Notched impact strength, RT | DIN EN ISO 179 EA1 | kJ / m ² | >4 |
| Notched impact strength, < 0°C | DIN EN ISO 179 EA1 | kJ / m ² | >3 |
| Shore hardness | DIN EN ISO 868 | scale D | >60 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 130 ... 135 |
| Glass transition temperature | ISO 11357-3 | °C | ~ -60 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,40 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1,90 |
| Service temperature, long term | Average | °C | -30 ... 80 |
| Heat storage behavior lengthwise | ISO 14632 | % | 0,05 |
| Heat storage behavior crosswise | ISO 14632 | % | 0,04 |

