

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

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 13/12/2025 • Release: 24/04/2025 • Version: 5.0
 PIM-Version: 1027 • PIM-ID: 746635 • PIM-Code: 1027-100-11.70.15-3.8.5.11-4.4-5
 Company-IDs: 20000-1

Page 1 / 2 (Dates in DD/MM/YYYY)



The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.



ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 13/12/2025 • Release: 24/04/2025 • Version: 5.0
PIM-Version: 1027 • PIM-ID: 746635 • PIM-Code: 1027-100-11.70.15-3.8.5.11-4.4-5
Company-IDs: 20000-1

Page 2 / 2 (Dates in DD/MM/YYYY)

