Technical Data Sheet

Röchling ReLOOP®

Foamlite® P 653 + UV-stabilized PIR black

PP

Typical characteristics

- Low density
- Low moisture absorption
- Anti-slip Surface
- UV-resistant

Typical industries

- Costruzione di serbatoi e impianti chimici
- Plastics for chemical storage tanks
- Costruzione di navi e imbarcazioni
- Imbarcazioni da lavoro e da diporto

Sustainability

- Post-Industrial-Recycling material
- Recycling content 40%
- LCA available (ISO 14040/44)

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	0,65
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>18
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1000
Notched impact strength	DIN EN ISO 179	kJ / m^2	>20
Shore hardness	DIN EN ISO 868	scale D	>65
Thermal properties			
Melting temperature	ISO 11357-3	°C	162 ... 167
Thermal conductivity	DIN 52612-1	W / (m * K)	<0,15
Thermal capacity	DIN 52612	kJ / (kg * K)	1,70
Coefficient of linear thermal expansion	DIN 53752	10^{-6} / K	120 ... 190
Service temperature, long term	Average	°C	-10 ... 90
Service temperature, short term (max.)	Average	°C	150
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	80
Electrical properties			
Dielectric constant	IEC 60250		2,3

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Print: 14/06/2026 • Release: 20/01/2025 • Version: 3.0
PIM-ID: 773562 • PIM-Code: 562-102-13.12.13.15-9.7.5.11-4.7.3-5
Company-IDs: 20000-1

	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{14}$
Surface resistivity	DIN EN 62631-3-2	Ω	$>10^{14}$

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.