

Technical Data Sheet

Technical Data in an overview		British Recycled Plastic		
Testing:	Standard DIN EN ISO	Result		
3 Point Bend	178	Flexural Strength	-5°C	35.1
		Bending E-Modulus		2,261
		Flexural Strength	23°C	24.0
		Bending E-Modulus		1,424
		Flexural Strength	65°C	16.5
		Bending E-Modulus		856
Tensile	527-2	Strength	MPa	15.6
		Tensile E-Modulus		1,490
		Elongation	%	1.7
Timed Tensile	899-1	Tensile E-Modulus	1 hour	1,043
		Tensile E-Modulus	24 hours	975
		Tensile E-Modulus	100 hours	852
Timed 3 Point Bend	899-2	Bending E-Modulus	1 hour	1,159
		Bending E-Modulus	24 hours	943
		Bending E-Modulus	100 hours	816
Pressure Characteristics	604	Compression Strength	1% Stress	2.5
			2% Stress	5.3
			10% Stress	27.9
			Compressive stress at yield	29.0
		Pressure E-Modulus		815
Charpy Test	179	Impact Resistance		kJ/m ² 12
Impact Shore Hardness	868	Shore Hardness		62
Density Test	1183-1	Density		g/cm ³ 1.0529
Water Absorption	62	23°C, 50%r.L.		<1
		23°C in water		<1
		100°C in water		<1
Resistance	60093 ⁴	Surface Resistance		1.5 x 10 ¹⁴
		Specific Surface Resistance		1.5 x 10 ¹⁵
		Flow/Contact Resistance		>2.0 x 10 ¹⁴
		Specific Flow/Contact Resistance		>8.4 x 10 ¹⁴
Ball Striking Test	2039-1	Ball Striking Hardness		N/mm ² 39.52
Thermal Expansion		Coefficient of Thermal expansion		1/°C 0.0001510648
Screw Pull out force		Drilled Material		N 8,230
		Non Pre-Drilled		N 8,140

Pendulum Test

An investigation into the slip potential of the reference test surface was conducted using a pendulum coefficient of friction test, via the use of the (British) pendulum tester. This testing was conducted on the 2nd of May 2024 following the strict methodology laid out in, and conforming to, the British-European Standard BS EN 16165:2021 – Annex C, and its associated counterpart American Standard ASTM E303-22. The reference test surface was a representative sample of a recycled plastic pedestrian decking surface similar to a boardwalk or platform.

The testing produced the following median value of Pendulum Test Value/British Pendulum Number
69 in dry and 49 in wet conditions.
(36+ = Low slip potential of 1 in 1,000,000)