

Kedel Ultra Material Test Data

Technical Data Overview		Kedel Recycled Mixed Plastic - Ultra Quality			
Testing:	Standard DIN EN ISO	Test Results			
3 Point Bend	178	Flexural Stress	-5°C	MPa	35.1
		Bending E-Modulus			2,261
		Flexural Stress	23°C		24.0
		Bending E-Modulus			1,424
		Flexural Stress	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	MPa	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	MPa	1,159
		Bending E-Modulus	24 Hours		943
		Bending E-Modulus	100 hours		816
Pressure Characteristics	604	Compression Strength	1% Stretch	MPa	2.5
			2% Stretch		5.3
			10% Stretch		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 Absorbtion	62	23°C,50%r.L.		%	<1
		23°C in water			<1
		100°C in water			<1
Resistance	60093 ⁴	Surface Resistance		Ω	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