

KEDEL

BRITISH RECYCLED PLASTIC PRODUCTS

Recycled plastic
specification

Kedel Ultra

Specification		
Description	Kedel Ultra , the stiffest of the Kedel mixed plastic blends, offers good impact resistance & bending strength. The surface has the appearance of timber with even colour. Contains polyolefins (HDPE & LDPE) & styrenes. 100% Recycled post industrial & consumer waste plastic.	
Production Process	A blended polymer, fed into molds under high temperatures and pressures.	
Finish	The surface is knot free, evenly coloured, with a textured surface.	
Properties	<ul style="list-style-type: none"> ◆ Maintenance free ◆ Durable ◆ Can be worked as wood ◆ Splinter free ◆ Frost proof ◆ Impervious to fungi and insects ◆ Does not leach toxic substances 	<ul style="list-style-type: none"> ◆ Wear resistant ◆ Will not rot ◆ Environmentally friendly ◆ 100% recycled and recyclable ◆ Insulating ◆ Acoustic sound proofing ◆ Shock proof and flexible ◆ Resistant to most chemicals
Performance	Properties	Example Values
All figures quoted are typical values and for guidance only	Density	0.99 g/cm ³
	Thermal expansion coefficient	0.11 mm/m/°C
	Moisture absorption (ISO 175)	<0.2 wt%
	Slip resistance in dry (BS 7976-2)	Low slip risk - 49
	Slip resistance in wet (BS 7976-2)	Low slip risk - 41
	Tensile modulus (ISO 527-2)	1445 MPa
	Tensile strength (ISO 527-2)	15 MPA
	Flexural modulus (ISO 178)	1225 MPa
	Flexural strength (ISO 178)	30 MPa
	Impact resistance un-notched (ISO 179)	14 KJ/m ²
Chemical Stability	Resistant to most common chemicals - contact us for specific info	
Typical Uses	Ideal for extreme loading - fence rails, floorboards, beams & sleepers and challenging environments where durability and strength count.	