

Specification		
<b>Description</b>	<b>Kedel Ultra</b> , 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.	
<b>Production Process</b>	A blended polymer, fed into molds under high temperatures and pressures.	
<b>Finish</b>	The surface is knot free, evenly coloured, with a textured surface.	
<b>Properties</b>	<ul style="list-style-type: none"> <li>◆ Maintenance free</li> <li>◆ Durable</li> <li>◆ Can be worked as wood</li> <li>◆ Splinter free</li> <li>◆ Frost proof</li> <li>◆ Impervious to fungi and insects</li> <li>◆ Does not leach toxic substances</li> </ul>	<ul style="list-style-type: none"> <li>◆ Wear resistant</li> <li>◆ Will not rot</li> <li>◆ Environmentally friendly</li> <li>◆ 100% recycled and recyclable</li> <li>◆ Insulating</li> <li>◆ Acoustic sound proofing</li> <li>◆ Shock proof and flexible</li> <li>◆ Resistant to most chemicals</li> </ul>
Performance	Properties	Example Values
<b>All figures quoted are typical values and for guidance only</b>	Density	0.99 g/cm <sup>3</sup>
	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 <sup>2</sup>
<b>Chemical Stability</b>	Resistant to most common chemicals - contact us for specific info	
<b>Typical Uses</b>	Ideal for extreme loading - fence rails, floorboards, beams & sleepers and challenging environments where durability and strength count.	