# **BRITISH RECYCLED PLASTIC PRODUCTS**

## Recycled Mixed Plastic Specification Kedel Ultra

Specification		
Description	<b>Kedel Ultra</b> is the stiffest of all the mixed plastic blends. Manufactured from polyolefins and styrenes, recycled from 100% post industrial and post consumer mixed waste plastics. It offers good impact resistance and bending strength. The surface has the appearance of timber with consistent colour.	
Production Process	The polymer is blended and fed under high temperatures and pressures into moulds.	
Finish	The surface is knot free, evenly coloured, showing a textured structure.	
Properties	<ul> <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> <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
	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
All figures quoted are	Slip resistance in wet (BS 7976-2)	Low slip risk - 41
typical values and for guidance only	Tensile modulus (ISO 527-2)	1445 MPa
guidance enily	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>
Chemical Stability	Resistant to most common chemicals - contact us for specific info	
Typical Uses	<b>Kedel Ultra</b> is used for high quality profiles commonly exposed to extreme loadings, like fence rails, floorboard profiles, beams and sleepers - challenging environments where durability and strength count.	



### Recycled Mixed Plastic Specification Kedel Robust

Specification			
Description	Manufactured from 100% high quality recycled mixed plastic waste, from post industrial and consumer use, and contains non toxic selected process additives providing colour and rigidity. <b>Kedel Robust</b> has a high level of stiffness and is extremely resistant.		
Production Process	The polymer is blended and fed under high temperatures and pressures into moulds.		
Finish	<b>Kedel Robust</b> has a knot free, textured surface and is evenly coloured. The natural colour version is very similar in appearance to concrete, whilst the brown version resembles wood.		
Properties	<ul> <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> <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	
	Moisture absorption (ISO 175)	<0.2 wt%	
	Tensile modulus of elasticity (ISO 527-1)	742.2 MPa	
All figures quoted are typical values and for	Tensile strength (ISO 527-2)	12.64 MPA	
guidance only	Flexural modulus of elasticity (ISO 178)	641.8 MPa	
	Flexural stress at 3.5% outer fibre strain (ISO 178)	18.42 MPa	
Chemical Stability	Resistant to most common chemicals - contact us for specific info		
Typical Uses	Ideal for Palisades, L-stones, Sleepers, Posts and Slabs.		

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## BRITISH RECYCLED PLASTIC PRODUCTS

### Recycled Mixed Plastic specification Kedel Ductile

Specification			
Description	Manufactured from 100% high quality recycled mixed plastic waste, from post industrial and consumer use, and contains non toxic selected process additives providing colour and rigidity. Products made of <b>Kedel Ductile</b> have high impact resistance. The textured surface of these products gives an attractive finish.		
Production Process	The polymer is blended and fed under high temperatures and pressures into moulds.		
Finish	The surface is evenly coloured and has a textured appearance.		
Properties	<ul> <li>Maintenance free</li> <li>Durable</li> <li>UV resistant</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> <li>Wear resistant</li> <li>Acoustic sound proofing</li> <li>Resistant to most chemicals</li> <li>Will not rot</li> <li>Environmentally friendly</li> <li>Insulating</li> <li>100% recycled and recyclable</li> <li>Shock resistant and flexible</li> </ul>	
Performance	Properties	Example Values	
	$D_{\text{choice}}( \Omega_{0}  _{1})$	1,0062 g/cm <sup>3</sup>	
	Density (ISO 1183-1)	1,0002 g/011*	
	Thermal expansion coefficient	0.00018993 mm/m/°C	
All figures quoted are	Thermal expansion coefficient	0.00018993 mm/m/°C	
typical values and for	Thermal expansion coefficient Moisture absorption (ISO 62)	0.00018993 mm/m/°C <1 wt%	
<b>.</b> .	Thermal expansion coefficient Moisture absorption (ISO 62) Tensile modulus (ISO 527-2)	0.00018993 mm/m/°C <1 wt% 659 MPa	
typical values and for	Thermal expansion coefficient Moisture absorption (ISO 62) Tensile modulus (ISO 527-2) Tensile strength (ISO 527-2)	0.00018993 mm/m/°C <1 wt% 659 MPa 9.65 MPA	
typical values and for	Thermal expansion coefficient Moisture absorption (ISO 62) Tensile modulus (ISO 527-2) Tensile strength (ISO 527-2) Flexural modulus (ISO 178)	0.00018993 mm/m/°C <1 wt% 659 MPa 9.65 MPA 581 MPa	
typical values and for	Thermal expansion coefficient Moisture absorption (ISO 62) Tensile modulus (ISO 527-2) Tensile strength (ISO 527-2) Flexural modulus (ISO 178) Flexural strength (ISO 178) Impact resistance - Charpy test -	0.00018993 mm/m/°C <1 wt% 659 MPa 9.65 MPA 581 MPa 20 MPa 412 KJ/m <sup>2</sup>	

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