BRITISH RECYCLED PLASTIC PRODUCTS

Recycled Mixed 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	 Maintenance free Durable Can be worked as wood Splinter free Frost proof Impervious to fungi and insects Does not leach toxic substances 	 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 chemica	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.		

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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. Kedel Robust 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	Kedel Robust 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	 Maintenance free Durable Can be worked as wood Splinter free Frost proof Impervious to fungi and insects Does not leach toxic substances 	 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	
	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 of Kedel ductile 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	 Maintenance free Durable UV resistant Splinter free Frost proof Impervious to fungi and insects Does not leach toxic substances 	 Wear resistant Acoustic sound proofing Resistant to most chemicals Will not rot Environmentally friendly Insulating 100% recycled and recyclable Shock resistant and flexible
Performance	Properties	Example Values
All figures quoted are typical values and for guidance only	Density (ISO 1183-1)	1,0062 g/cm ³
	Thermal expansion coefficient	0.00018993 mm/m/°C
	Moisture absorption (ISO 62)	<1 wt%
	Tensile modulus (ISO 527-2)	659 MPa
	Tensile strength (ISO 527-2)	9.65 MPA
	Flexural modulus (ISO 178)	581 MPa
	Flexural strength (ISO 178)	20 MPa
	Flexural strength (ISO 178) Impact resistance - Charpy test - (ISO 179)	20 MPa 412 KJ/m ²
Chemical Stability	Impact resistance - Charpy test -	412 KJ/m ²

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