

KEDEL

BRITISH RECYCLED PLASTIC PRODUCTS

Recycled plastic
specification
zyplex 06

Specification		
Description	Manufactured from 100% high quality recycled mixed waste plastics from post industrial and consumer use and where necessary selected process additives.	
Production Process	The polymer is blended and fed under high temperatures and pressures into moulds.	
Finish	The surface is evenly coloured and has a smooth structure	
Properties	<ul style="list-style-type: none">◆ Maintenance free◆ Durable◆ Excellent UV and weathering resistance◆ Extremely strong in situ. Up to 250 tons per m/sq	<ul style="list-style-type: none">◆ Will not rot◆ Environmentally friendly◆ 100% recycled and recyclable◆ Shock proof and flexible◆ Resistant to a wide range of chemicals
Performance	Property	Example Values
All figures quoted are typical values and for guidance only	Density	0.9 - 0.063 g/cm ³
	Moisture absorption (ISO 175)	<0.01 wt%
	Tensile modulus (ISO 527-2)	1100 MPa
	Tensile Strength (ISO 527-2)	22-29 MPA
	Flexural modulus (ISO 178)	1100-1320 MPa
	Impact resistance un-notched (ISO 179)	5 KJ/m ²
Chemical Stability	Resistant to most common chemicals - contact us for specific information	
Typical Uses	For highly durable but thinner walled items such as Kedel Drainage and Ground Reinforcement Grids - DGR, buckets, paint trays etc.	

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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 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	0.94 g/cm ³
	Thermal expansion coefficient	0.13 mm/m/°C
	Moisture absorption (ISO 175)	<0.2 wt%
	Tensile modulus (ISO 527-2)	885 MPa
	Tensile strength (ISO 527-2)	8.5 MPA
	Flexural modulus (ISO 178)	715 MPa
	Flexural strength (ISO 178)	17 MPa
	Impact resistance un-notched (ISO 179)	12 KJ/m ²
Chemical Stability	Resistant to most common chemicals - contact us for specific info	
Typical Uses	Ideal where material needs to be flexible and readily take nails or screws in applications such as Nailer Battens, Formwork and Falsework.	

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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 style="list-style-type: none">◆ Maintenance free◆ Durable◆ UV resistant◆ Dimensionally stable	<ul style="list-style-type: none">◆ Will not rot◆ Environmentally friendly◆ 100% recycled and recyclable◆ Shock proof and flexible
Performance	Properties	Example Values
All figures quoted are typical values and for guidance only	Density	0.74 - 0.8 g/cm ³
	Thermal expansion coefficient	0.14 mm/m/°C
	Moisture absorption (ISO 175)	<0.2 wt%
	Tensile modulus (ISO 527-2)	830 MPa
	Tensile strength (ISO 527-2)	13 MPA
	Flexural modulus (ISO 178)	765 MPa
	Flexural strength (ISO 178)	20 MPa
	Impact resistance un-notched (ISO 179)	69 KJ/m ²
Chemical Stability	Resistant to most common chemicals - contact us for specific info	
Typical Uses	Use where high impact products are needed such as in the case of bollards, coil stops, and street signage.	

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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	For challenging environments where durability counts, such as in the manufacture of outdoor furniture and construction materials.	

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About us

Sustainable ideas



What's the big idea?

This family business was founded on ethical and ecologically sound principles.

We wanted to make sustainable living attractive - easy to incorporate into our personal and working environments.

We believe this will bring us all healthier, happier lives, a much better future, infinitely sustainable, for all generations to come.



How will we make it happen?

'Together' is the only way we will be able to protect the future successfully.

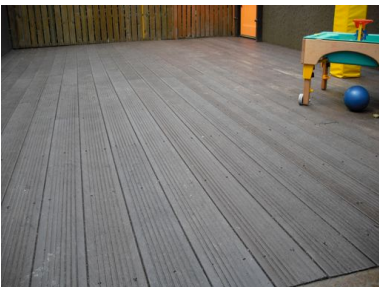
We will work with architects, specifiers, builders, local authorities, housing associations, and all our customers, both commercial and domestic, to pool our most innovative ideas.

We will recycle plastic in ever more novel ways, like those you see here.

We will use British recycled plastic.

Recycled plastic from Asia has a huge carbon footprint due to transportation and is very far from environmentally friendly.

Production of recycled plastic releases **250% less CO2** into the atmosphere than production of virgin plastic.



It's the law

The construction industry will be responsible for 1/5th of all greenhouse gasses by 2025.

Use of recycled materials is already a legal requirement in new build and refurbishment of housing stock.

The Government's target is to ensure we construct only carbon-zero dwellings by 2016.



Don't wait

It will save you time and money right now!

Maintenance and replacement costs are substantially reduced through the use of our recycled plastic building materials.

Payback of your initial investment is estimated to be in as little as 2 - 4 years.

Get your company a reputation for the maintenance free quality of its building projects.

Call us now on 01282 861325.

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