



Specification

Product Benefits



- · Lasts five times longer than timber.
- · Reduced whole life costs.
- · Low maintenance and easy to clean.
- · Chip, crack and splinter proof.
- · Vandal resistant.
- · Tough and durable.
- Will not rot and is insect proof and non toxic.
- Can be cut, drilled, nailed, screwed, bolted, and stapled.

Innovation Recycling Technology



Eco Plastic Wood products are produced entirely from mixed waste plastics that would have been destined for landfill.

- 100% recycled
- 100% recyclable
- Each tonne used saves 1.66 tonnes of CO₂

Description	Eco Plastic Wood is made using 100% high quality recycled mixed waste plastics from post industrial and consumer use and where necessary selected process additives.			
Composition	Eco Plastic Wood profiles are composed of a proportion of LDPE (Low Density Polyethylene) HDPE (High Density Polyethylene), PP (Polypropylene) and other thermoplastic materials.			
Production Process	The polymers are ground, mixed and fused under high temperatures and pressures into pressed moulds.			
Finish	The surface is evenly coloured and shows a textured structure.			
Properties	 Maintenance free Durable Frost proof Does not leave toxic substances UV resistant 	Wear resistant Non rotting Environmentally friendly 100% recycled and recyclable Shock proof and flexible		

Performance Pr	operty		Value	
	Density		0.924 - 0.966 Kg/dm ³	
	Linear expansion coefficient		0.068- 0.075 mm/m/ °C	
	Moisture absorption		<0.46%	
	Vicat temperature		~107 C	
	Pull out value		3095 N	
	E-module		500 - 570 MPA	
All discussion and address	Breaking strength		15.5 - 17.9 MPA	
All figures quoted are averages and should be	Elongation at break		3.7 - 14.9%	
checked for specific	Maximum pull strength		15.5 - 17.8 MPA	
applications	Elongation at maximum pull strength		3.5 - 4.8%	
принамен	Impact resistance:		12.5 - 17.8 Kg/m²	
		average	0.48 - 0.7 J	
		average		
	Bend test:		550 MPA	
		e-module	22.2 MPA	
		Max. press force	7.5%	
		Bend at max. press force		
Chemical Stability	Resistant to most common chemicals - contact us for specific information			

Mechanical Properties of Styrene

MECHANICAL PROPERTIES OF STYRENE

PROPERTIES	TEST METHOD	RESULTS	REMARKS
Tensile strength MPa	ISO 527	29	
Elongation at break %	ISO 527	2.4	
Modulus of Rupture MPa	BS 373	60	3 point bending
Modulus of elasticity MPa	BS 373	2440	
Stress at proportional limit MPa	BS 373	50	
Compression strength parallel to grain MPa	BS 373	56	
Compression strength perpendicular to grain MPa	BS 373	21	
Impact strength kJ/m2	BS 373	0.8	3 point bending
Water absorption %	ISO 82	0.1	50 x 30 x 10
Coefficient of thermal expansion 1/°C	DIN 62-53491	5 X 10 -5	-
	SNES 714CO2,	0.7	Carbon dioxide
Toxic Gas Factor - Only two detected from eight tested	CO, HCI, HCN, H2SSO2, NOX,	2.6	Carbon monoxide
	AMMONIA		0 - 3 low toxicity
UV stability	ASTM E383-B	Accepted	No measureable change mechanical properties
Vicat softening point	ISO 306	92oC	-

These test results are indicative test and can be altered to suit various applications by changing the Specific Gravity of a given profile