

introducing a green resin solution



In line with our commitment to work towards a more sustainable future, GRP Solutions is pleased to introduce a new plastic waste reducing resin.

One of the key components of this innovative resin is recycled PET (polyethylene terephthalate). For every 220kg drum produced, approximately 1,800 plastic bottles are diverted from landfills and our oceans.

Our PET resin is also competitively priced and offers better overall performance than comparable standard resins.

Solutions that make a difference.

key benefits

- No deforestation-causing bio products included (such as palm oil).
- Superior strength and flexibility compared to typical low and med/high reactivity resin.
- Water absorption higher than standard unsaturated polyester resins, but good hydrolysis resistance – suggested for pipe and tanks applications.
- Meeting Lloyd's Register requirements for marine.
- Higher HDT, range between 65-100°C.
- Cost competitive.
- Saving natural resources, energy in production process and lower greenhouse gas emissions and use of chemicals.
- Green technology putting recyclable material into our product without sacrificing performance.
- Green Opaque in colour – ideal for applications with gelcoat.

to find out more
call us on: **02392 454509**

email: sales@grp-solutions.com, or visit: www.grp-solutions.com

superior mechanical properties

QTQ	Typical Low Reactivity		Typical Med/High Reactivity	
	STANDARD	PET	STANDARD	PET
Tensile Strength (Mpa)	65	68	55	70
Tensile Elongation (%)	2.1	4.5	1.9	3.5
Flexural Strength (Mpa)	110	120	100	120
HDT+1h 100°C (°C)	55-60	65	75-85	100
Water Absorption		Higher		Higher
Yellowing Resistance dE 500h QUVA		Lower		Lower
LSE Properties		Available		Available
Adhesion Test LSE		Good		Good
Appearance	Clear	Green Opaque	Clear	Green Opaque
Wetting Properties		Similar		Similar

Source: Porvoo R&D Lab Centre

applications

