



### FlexiPole Profile Specifications

RAW MATERIALS: polyester resin  
 Fibre roving, and continuous filament mat  
 together with woven roving fabric as appropriate  
 for the individual profiles  
 Polyester surface veil together with continuous  
 filament glass fibre mat on all external surfaces  
 PRODUCT STANDARD: EN13706-2 and EN13706-3

PRODUCT SPECIFICATION:  
 Flexipole manufactured.  
 Fully complying with all the requirements of  
 EN13706 -2 including dimensional tolerances and  
 quality assurance parameters.  
 Please see the table below  
 Structural properties meeting the E17 for profiles  
 with wall thickness 5mm and below and E23  
 grade for profiles with wall thickness greater than  
 5mm of EN 13706 – 3  
 ISO 9001 registered quality-controlled production

### Minimum properties that are required for each grade

Property	Unit	Test Method	Minimum
<b>Properties</b>			
<b>E23 Grade E17</b>			
<b>Grade</b>			
1.1	Full section test	GPa Annex D, EN 13706-2	23 17
1.2	Tension modulus axial	GPa EN ISO 527-4	23 17
1.3	Tension modulus transverse	GPa EN ISO 527-4	7 5
1.4	Tension strength axial	MPa EN ISO 527-4	240 170
1.5	Tension strength transverse	MPa EN ISO 527-4	50 30
1.6	Pin-bearing strength-axial	MPa Annex E, EN 13706-2	150 90
1.7	Pin-bearing strength-transverse	MPa Annex E, EN 13706-2	70 50
1.8	Flexural strength – axial	MPa EN ISO 14125	240 170
1.9	Flexural strength – transverse	MPa EN ISO 14125	100 70
1.10	Interlaminar shear strength axial	MPa EN ISO 14130	25 15



**SAFETY DATA SHEET**  
**GRP Profiles and Sections**

**MATERIAL IDENTIFICATION AND USE**

Chemical Name Profiles and section made from glass reinforced thermoset resin  
Common Name FlexiPole rod, tube or profile

**INGREDIENTS**

Glass fibre, thermoset resin, mineral fillers & pigments.  
Ingredients are chemically cured and bonded together.

**HAZARD IDENTIFICATION**

Acute Effect Routes of Entry Medical Note First Aid Procedures None by contact.

Dust produced by cutting or grinding can cause skin irritation.

Avoid breathing dust.

Skin contact or inhalation of dust when cutting.

People who have a condition that could be aggravated by dust should avoid cutting or grinding.

Skin - Remove person from dust area, rinse thoroughly with water without rubbing then wash with soap and water.

Eyes - Flush at once with a sterile eye wash solution.

**CHEMICAL DATA**

Appearance Rigid profiles and sections. Nil odours. Not soluble in water.  
Specific Gravity 1.8-1.9.

**FIRE FIGHTING MEASURES**

Product will burn if in contact with a direct fire source. Flash point: none. Flammability limits: none. Extinguishing Media: Water, foam, A, B or C fire extinguisher. Heavy, black smoke. Use air respirator.

**WASTE DISPOSAL**

Abide by local laws and procedures.  
Product is not considered a hazardous waste.

**HANDLING**

Wear masks, and goggles when cutting or grinding. Cover all exposed parts of the body. Use barrier creams where applicable.