

Technical Data Sheet**GMPE1 SHEETING MATERIAL**

This specification is intended to outline the physical and chemical properties of Panduit's GMPE1 sheeting material.

Part Number Prefixes		
PRS		
PSL-ERB		

Printable Material Suffixes		

PRODUCT SPECIFICATIONS:

Description:	Material is RoHS compliant (European Union directive 2002/95/EC). Material is an extruded high density polyethylene sheeting.
Standard Colors:	White, Yellow, Red, Orange
Thickness:	55 mils +/- 10% (White, Yellow, Orange) 75 mils +/- 10% (Red)
Maximum Use Temperature (No Load):	250F (121C)
Shelf Life:	Five years when stored at 70F (21C) and 50% relative humidity.
Expected Exterior Life:	Five Years

PROPERTIES:**PERFORMANCE:**

Tensile Strength:	2,400 psi to 6,100 psi – Machine direction (ASTM D-638)
Elongation:	10% - 650% Machine Direction (ASTM D-638)
Modulus of Elasticity:	100,000 – 260,000 psi (flexural)
Impact Resistance:	0.4 – 14.0 ft-lbf/in (Izod Notch test at 72F (22C))
Cold Fracture:	After 5 hours at minus 30F (minus 34C) mounted on a steel plate, The material did not crack or fracture when a 5 lb (2.3 kg) steel ball was dropped on it from a height of 24 inches (61 cm).

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Chemical/Solvent:

The testing was conducted at room temperature. Printed samples were cut into thin strips and then immersed in the following solvents for 5 immersions using the following cycle: a 10 min immersion time followed by rubbing 10 times with a lint free gauze and then a 30 min recovery time. Visual observations were noted for any changes in the material or any loss of legibility.

Chemical/Solvent	Material	Print
Distilled water	No change	No change
Mineral Spirits	No change	No change
Toluene	No change	No change
Ethanol	No change	No change
Methanol	No change	No change
Acetone	No change	No change
Methyl Ethyl Ketone	No change	No change
1,1,1 TCE	No change	No change
Freon TF	No change	No change
Super Agitene	No change	No change
Jet a Fuel	No change	No change
Arco Truslide	No change	No change
SAE 30 Motor oil	No change	No change
Kerosene	No change	No change
Benzene	No change	No change
Xylene	No change	No change
Ethylene glycol	No change	No change

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