



# PMT-F1

### Description

PMT-F1 family is low temperature cure toughened epoxy resin systems designed for vacuum bag, press and autoclave curing using standard layup procedures. PMT-F1 systems are designed to work with low temperature tooling and simple oven/vacuum bag layups. This makes PMT-F1 very applicable for large marine structures and commercial sporting goods. The resins can be impregnated into numerous unidirectional or fabric reinforcements.

### Resin Properties

Property	Value
Gel Time at 180°F	24 minutes
Gel Time at 250°F	1.5 minutes

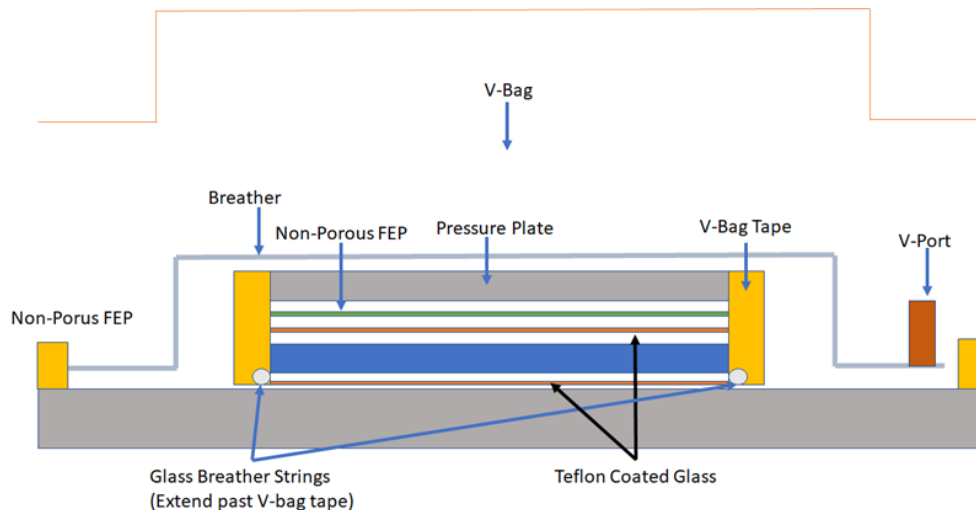
Property	Value
Density	1.2
Max Tg with Post Cure	310°F

### Storage

PMT-F1 should be stored in a desiccated sealed bag. PMT-F1 has a storage life of 1 year when stored at 10°F and a handling life of 30 days when stored at 70°F or below.

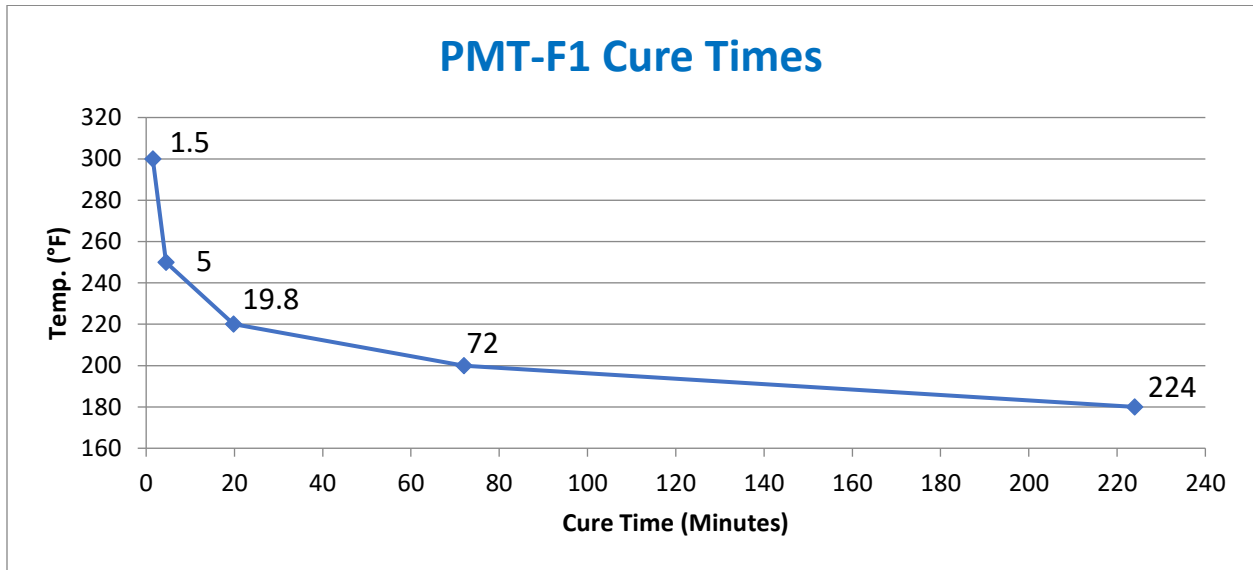
### Recommended Bagging Procedure

PMT-F1 requires heat and pressure for consolidation. There are many different layup and cure procedures that will yield successful structures. As a base line PMT recommends using the following bagging sequence.





### Cure Times



### Laminate Mechanical Properties

Laminate: PMT-F1/T700 24K

FAW: 200 gsm

RC: 35%

Cure type: Vacuum bag

Property*	ASTM Test Method	PMT-F1 T700 24K
<b>0° Tensile Strength, Ksi</b>	D3039	362
<b>0° Tensile Modulus, Msi</b>	D3039	18
<b>0° Compression Strength, Ksi</b>	D6641	180
<b>0° Compression Modulus, Msi</b>	D6641	17.8
<b>Short Beam Shear Strength, Ksi</b>	D2344	15.2