

P<sup>2</sup>SI<sup>®</sup> T3 is a unique, low cost, easily processable, high performance resin system developed specifically for vacuum assisted resin transfer molding (VARTM). P<sup>2</sup>SI<sup>®</sup> T3 RTM resin system has a large processing window and can be cured as low as 600°F (316°C). Available as a melt-processable solid, which makes it a great low cost alternative to autoclave materials, P<sup>2</sup>SI<sup>®</sup> T3 does not contain MDA or free amines and has a glass transition temperature of ~561°F (294°C).

### Resin Properties

Property	Value	Test Method
Glass Transition Temperature, °F (°C)		ASTM D7028
Storage Modulus, E'	523 (273)	
Loss Modulus, E''	561 (294)	
Tan δ	580 (304)	

### Typical Mechanical Properties with T650-35/8HS/UC309 Textile Reinforcement (Quasi-Isotropic Laminates)

Property	Value		Test Method
	Dry	Wet	
Compression Strength, ksi (MPa)			ASTM D695
75°F (23°C)	82 (567)	—	
400°F (204°C)	56 (389)	49 (336)	
Interlaminar Shear Strength, ksi (MPa)			ASTM D2344
75°F (23°C)	9.0 (61.8)	—	
400°F (204°C)	4.9 (33.9)	4.6 (31.9)	
Four-Point Flexural Strength, ksi (MPa)			ASTM D3039
75°F (23°C)	123 (852)	—	
400°F (204°C)	92 (633)	77 (531)	

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