

INTRODUCING:

ADVALITE™ VINYL HYBRID RESINS

ADVALITE™ VINYL HYBRIDS Hot Melt Prepreg Resins

DESCRIPTION: ADVALITE™ VINYL HYBRIDS Hot Melt Prepreg Resins are 100% solids, monomer free, flexible vinyl hybrid resins with excellent catalyzed stability and rapid cure at elevated temperature. It can be used to produce tough hot melt prepregs.

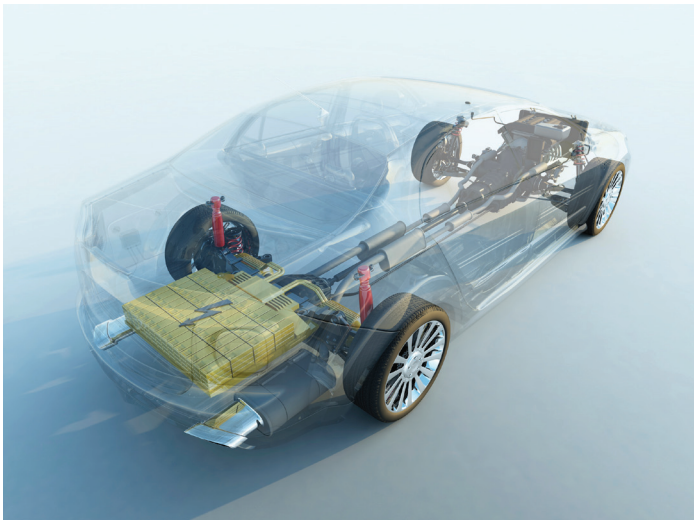
APPLICATION: ADVALITE™ VINYL HYBRIDS Hot Melt Prepreg resins are specifically designed to produce low tack, zero VOC hot melt prepregs.

FEATURES

- No Monomer
- High Tg up to 190°C
- Excellent room temperature catalyzed stability
- Rapid cure at elevated temperature
- Excellent wet out and compatibility with fiberglass

BENEFITS

- Zero VOC
- Maintains mechanical properties at elevated operating temperatures
- Does not require refrigerated storage
- Reduction in cure cycles and corresponding increase in productivity and reduction in operating costs
- Compatible with all forms of fiberglass reinforcements



CAST RESIN PROPERTIES

Properties	35000-00	35051-00	X4833-37	X4710-16	X4833-60
Description	FR Prepreg	Prepreg	Prepreg	Prepreg	Radomes
Tensile Strength, MPa	57.8	82.5	65.4	62.1	35.4
Tensile Modulus, GPa	3.93	3.43	3.05	4.01	3.55
Tensile Elongation, %	1.64	4.0	2.5	1.8	1.11
Heat Distortion Temperature, °C	94	84	116	151	>200
Water Absorption (24 hours @ RT), %			1.54		0.69
Dry Tg, °C	123	109	154	173	193
Wet Tg, °C	157		149		176
Dielectric Constant, Dk	NA	NA	NA	NA	2.82
Loss Tangent, Df	NA	NA	NA	NA	0.11

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INTRODUCING:

ADVALITE™ VINYL HYBRID RESINS

ADVALITE™ VINYL HYBRIDS Liquid Resins

DESCRIPTION: ADVALITE™ VINYL HYBRIDS Liquid resins are low viscosity resins designed for high end structural and impact resistant composite applications. This resin allows the designer/engineer to simultaneously achieve excellent flexibility and toughness with the high strength, stiffness, and temperature resistance of polyesters.

APPLICATION: ADVALITE™ VINYL HYBRIDS Liquid resins are formulated for use in pultrusion, filament winding, wet molding, infusion applications, etc

FEATURES

- No Monomer
- High Tg up to 190°C
- Excellent room temperature catalyzed stability
- Rapid cure at elevated temperature
- Excellent wet out and compatibility with fiberglass

BENEFITS

- Zero VOC
- Maintains mechanical properties at elevated operating temperatures
- Does not require refrigerated storage
- Reduction in cure cycles and corresponding increase in productivity and reduction in operating costs
- Compatible with all forms of fiberglass reinforcements



CAST RESIN PROPERTIES

Properties	35065-00	35060-00	35070-00	X4830-27
Tensile Strength, MPa	80.5	45.7	34.1	16.1
Tensile Modulus, GPa	3.84	3.78	2.07	3.64
Tensile Elongation, %	2.8	1.5	35.9	0.6
Heat Distortion Temperature, °C	72	155	NA	> 200
Water Absorption (48 hours @ 100°C), %	2.16	0.83	NA	0.57
Dry Tg, °C	104	170	NA	155
Wet Tg, °C	93	166	NA	
Viscosity, cps	500	1,200	4,400	500

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