

TYPICAL CURED PROPERTIES:

Property	ASTM Test Method	Test Values
LAMINATE FROM 10 OZ. GLASS CLOTH:		
Specific Gravity	D-792	1.30-1.36
Cubic Inch per lb.	D-792	20.8
Hardness (Shore D)	D-2240	90
Ultimate Compressive Strength (psi)	D-695	25,000 min.
Ultimate Flexural Strength (psi)	D-790	30,000 min.
Flexural Modulus (psi)	D-790	1.7×10^6
Ultimate Tensile Strength (psi)	D-638	22,000 min.
Tg per DMA (°F)	D-4065	290
Deflection Temperature (264 psi) (°F)	D-648	300
Coefficient of Thermal Expansion (in/in/°F)	D-3386	1.1×10^{-5}
Tested at 300°F (149°C)		
Ultimate Flexural Strength (psi)	D-790	10,000 min.
Flexural Modulus (psi)	D-790	0.8×10^6
After 400 hours. aging at 350°F		
Flexural Strength @ RT	D-790	30,000 min.
Flexural Modulus @ RT	D-790	1.5×10^6
Flexural Strength @ 300°F	D-790	10,000 min.
Flexural Modulus @ 300°F	D-790	0.6×10^6

NOTE: Typical Properties – These physical properties are reported as typical test values obtained by our test laboratory. If assistance is needed in establishing product specifications, please consult with our Quality Control Department.

CURING INSTRUCTIONS: After gelling at room temperature, the following post-cure schedule is recommended: Two hours at 150°F (66°C) plus two hours at 200°F (93°C) plus two hours at 250°F (121°C) plus two hours at 300°F (149°C).

Temperature limitations of the mold or model dictate whether it can be used as the supporting structure during the postcure cycle. If the tool must be pulled from the model for the postcure, a supporting frame must be provided.

STORAGE/HANDLING INFORMATION:**RenLam 188-10 and Ren 188-10**

Store at 60-100°F in a dry place. After use tightly reseal.

Work in a well ventilated area and use clean, dry tools for mixing and applying. For two component system, combine the resin and hardener according to mix ratio. Mix together thoroughly and use immediately after mixing. Material temperature should not be below 65°F (18°C) when mixing.

STORAGE/HANDLING INFORMATION continued

RenLam 188-10

This product may crystallize upon storage. If crystallized, vent container and heat to 125-145°F until crystals dissolve. Stir well after product has liquefied.

Stir well before use. This material will separate.

SHELF LIFE: Provided materials are stored under the recommended storage conditions in their original containers, they will remain in useable condition for at least one year from date of shipping.

PACKAGING: This product is available in the following package size(s):

55# Resin 5-gal. pails, 575# Resin drums.
6.05# Hardener 1-gal. pails, 31.6# Hardener 5-gal. pails,
and 425# Hardener drums.

Please call Customer Service (800-367-8793) for price and availability.

SAFETY/HANDLING PRECAUTIONS: Do not use or handle this product until the Material Safety Data Sheet has been read and understood.

RenLam 188-10

DANGER! Causes severe skin irritation. Causes eye irritation. May cause skin burns and allergic skin reaction.

Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Ren 188-10

DANGER! CORROSIVE – causes eye and skin burns. Harmful if absorbed through skin. May cause allergic skin and respiratory reactions

Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Nuisance dust may be generated when sanding or sawing cured material.

FIRST AID: In case of contact with:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If conscious, give plenty of water to drink. Do not induce vomiting. Call a physician.

Inhalation: Remove to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician.

Other: Referral to physician is recommended if there is any question about the seriousness of any injury.

PRECAUTIONARY NOTE: Thermosetting systems generate heat when curing. The amount of heat and the period of time in which heat is released vary significantly between systems. Additionally, ambient or compound temperature, amount of material mixed, and construction and shape of the mold or container can also be factors in the temperature profile of a mixed system. In some cases, the thermosetting reaction can be vigorous, generating heat sufficient to cause decomposition of the system with subsequent liberation of large volumes of acrid smoke.

A good rule of thumb is never mix more material than can be applied during the stated pot life or gel time. Also take care when using materials in applications other than stated on the Product Data Sheet, i.e., a laminating resin for casting.

Please feel welcome to call our Product Information Department or your local Ren representative for instructions before you start your job.

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