

Dual-Cure Polyester Resin

71200, 71400, 71500, 71600



SOLAREZ Low VOC resin is a low styrene emission orthophthalic polyester resin that is ultraviolet curable. It rapidly cures (<3 min.) upon exposure to the safer UVA light (365-400 nm.) amply available in natural sunlight and low-wattage fluorescent suntan bulbs. It is enhanced with UV stabilizers that greatly improve its weatherability. Curing commences within 30 seconds of exposure to mid-day sunshine in non-polar latitudes. Ambient temperatures as low as -20°F or as high as 120°F have little effect on cure time or physical properties of Solarez.

TYPICAL PROPERTIES OF CURED

CASTING @ 77°F (guidance only)

- 1 Tensile strength 9,600
- 1 Tensile modulus, psi x 106 0.52
- 1 Tensile elongation, % 3.0
- 2 Flexural strength 19,000
- 2 Flexural modulus, psi x 106 0.52
- Compressive strength, psi 17,000
- 3 Barcol hardness 40
- Heat deflection temp, °F 180

TYPICAL LIQUID PROPERTIES:

- Viscosity, Brookfield, cps 450
- Appearance Clear
- DOT Flammability Rating, °F 76-100
- Monomer content % 35

- 1 ASTM D-790
- 2 ASTM D-638
- 3 ASTM D-2583

Handling: SOLAREZ resin contains ingredients that could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and/or clothing should be worn. For important health, safety and handling information, consult the MSDS before using this product.

Storage: Store @ temperatures below 80°F. Keep away from heat, sparks and open flame. Handle only in diffused light -- never in direct sunlight. Direct sunlight will cause rapid curing of resin.

Solarez is available in polyester, epoxies, urethanes as well as other resin families.

www.solarez.com