



TCC-301 EPOXY LAMINATING SYSTEM

ROOM TEMPERATURE LAMINATING

PRODUCT BULLETIN



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DESCRIPTION

Epoxy Resin **TCC-301** used with either Epoxy Hardener **TCC-102**, **TCC-104** or **TCC-104-5** is a room temperature laminating system. This system has an excellent combination of properties including superior wet-out when used with fiberglass cloth, low exotherm, and low shrinkage. A choice of hardeners gives the user the option of three different working times. Thin section laminates will achieve full cure at room temperature in 24 hours.

HANDLING CHARACTERISTICS @ 25°C/77°F

Mix Ratio (parts by weight).....	Resin TCC-301/Hardener TCC-102	100R/15H
Pot Life (230 gram mass).....		22 minutes
Mix Ratio (parts by weight).....	Resin TCC-301/ Hardener TCC-104	100R/15H
Pot Life (230 gram mass).....		38 minutes
Mix Ratio (parts by weight).....	Resin TCC-301/Hardener TCC-104-5	100R/15H
Pot Life (230 gram mass).....		66 minutes
Linear Shrinkage		Nil
Mixed Specific Gravity.....	Resin TCC-301/Hardener TCC-104	1.50
Viscosity	Resin TCC-301	12,000 cps
	Hardener TCC-102/104/104-5	200 - 250 cps
	Mixed Viscosity	2,450 - 5,500 cps
Color.....	Resin TCC-301	White
	Hardener TCC-102/104/104-5	Amber
	Cured Color.....	White
Peak Operating Temperature.....		160°F
Hardness		88 Shore D
Shelf Life (in original unopened containers).....	TCC-301/TCC-102/104/104-5	2 years

PHYSICAL PROPERTIES (Using TCC-301/104)

6 Layer, 10 Oz Glass Fabric Laminate:

Tensile Strength (ASTM D-638).....	24,640 psi
Tensile Modulus (ASTM D-638).....	2,951,000 psi
Tensile Elongation (ASTM D-638)	1.4%
Flexural Strength (ASTM D-790).....	30,370 psi
Flexural Modulus (ASTM D-790).....	1,973,000 psi

Cast Bar:

Compressive Strength (ASTM D-695)	13,380 psi
Compressive Modulus (ASTM D-695)	329,000 psi
Impact Strength (ASTM D-256).....	6.44 in-lbf/in
Heat Deflection Temperature @ 66 psi (ASTM D-648)	53°C/127°F
Moisture Absorption (ASTM D-570).....	0.06%

SANITARY PRECAUTIONS

Do not take internally. Avoid prolonged breathing of vapors. Work in a well-ventilated area. Avoid skin contact. Protective gloves should be worn. If contact occurs: wash skin with soap and water. Avoid eye contact. If contact occurs: rinse well with water for 15 minutes, contact physician.

TCC-301 Tech/Revised 5/10/10
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