

Product Bulletin

CASS POLYMERS

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ES-201-PC
EPOXY SURFACE COAT
WHITE - THIXOTROPIC

REV: 0302

DESCRIPTION

ES-201-PC EPOXY SURFACE COAT is a white tooling, thixotropic, room temperature setting two component system for the fabrication of engineering tools, jigs and fixtures. The handling properties exhibit easy mixing, excellent air release and no-sag for high quality reproduction and duplication for dimensionally stable tools. The cured surface is machinable, yet chip resistant. Use with ADTECH laminating systems EL-301, EL-302-PC, or EL-323-TC.

USES

Masters	Models
Patterns	Keller Models
Engineering Tooling	Checking and Drill Fixtures

HANDLING CHARACTERISTICS @ 25°C/77°F

Mix Ratio	(parts by weight)	100:14
	(parts by volume)	5.9:1
Density (Mixed)	(lbs/gallon)	11
	(lbs/in3)	0.047
Specific Gravity	(g/cc)	1.32
Viscosity		
Resin	(cps)	85,000
Hardener	(cps)	5,500
Mixed	(cps)	40,000-thixotropic
Work Life	(minutes)	15
Tack Free Time	(minutes)	90
Demold Time	(hours)	8-10
Color		
Resin		White
Hardener		Clear
Mixed		White
Shelf Life	(Months - Unopened at 25°C/77°F)	12

PHYSICAL PROPERTIES

Ultimate Tensile Strength (psi) (ASTM D-638.91)	6,350
Tensile Modulus (psi) (ASTM D-638.91)	706,000
Tensile Elongation (psi) (ASTM D-638.91)	0.7856
Ultimate Compressive Strength (psi) (ASTM D-695.91)	15,100
Compressive Modulus (psi) (ASTM D-695.91)	302,200
Ultimate Flexural Strength (psi) (ASTM D-790.92)	11,900
Flexural Modulus (psi) (ASTM D-790.92)	713,600
CTE (in/in/F)	0.000194

CONTINUED ON REVERSE

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PHYSICAL PROPERTIES (CONT.)

Heat Deflection Temperature @ 66 PSI (°C/°F) (ASTM D-648.82).....	46/114
Heat Deflection Temperature @ 264 PSI (°C/°F) (ASTM D-648.82).....	43.6/110
Notched Izod Impact Strength (in-lb/ft) (ASTM D-256.93A).....	4.64
Moisture Absorption (%) (ASTM D-570.88).....	0.180
Hardness (Shore D).....	85
Shrinkage (in/in).....	