

# Product Bulletin

# CASS POLYMERS

**ADTECH**  
Plastic Systems  
SC-2001 Registered



Phone: 800 344 7776  
Fax: 248 588 5909  
815 West Shepherd Street  
Charlotte, MI 48813-0523  
plastic@casspolymers.com  
www.casspolymers.com

EC-426-2  
EPOXY CASTING SYSTEM  
ABRASION RESISTANT  
ROOM TEMP

0302

## DESCRIPTION

EC-426-2 ABRASION RESISTANT CASTING RESIN is a room-temperature cure system developed for use in the casting of hard tools and dies. EC-426-2 has excellent air release and high physical properties that will produce dimensionally accurate, detailed, durable, void free surface duplications. EC-426-2 can be cast up to 4" without excessive exotherm or shrinkage. EC-426-2 may be cast thicker than 4 inches with the addition of bulk filler.

## USES

Sheet Metal Stamping Dies  
Draw and Stretch Dies

Hammer Forms  
Router and Trim Fixtures

## HANDLING CHARACTERISTICS @ 25°C/77°F

Mix Ratio (parts by weight)	100R/18H
(parts by volume)	3.186R/1H
Density (Mixed)	13.95 lbs/gal
	0.053 lbs/cu in
Specific Gravity	1.47 grams/cc
Mixed Viscosity	24,000 cps
Work Life	200-270 minutes
Demold Time	24-36 hours
Complete Cure	5-7 days
Color Resin - Black Hardener - Amber	Mixed - Black
Shelf Life (Storage at ambient temperature)	1 Year

## PHYSICAL PROPERTIES

### CAST BAR:

Ultimate Tensile Strength	5,824 psi
Tensile Modulus	0.59 x 10 <sup>6</sup> psi
Ultimate Flexural Strength	9936 psi
Flexural Modulus	0.4 x 10 <sup>6</sup> psi
Ultimate Compressive Strength	10,360 psi
Impact Strength	5.23 in lbs
Shrinkage	0.0005 in/in
Cured Hardness	88-92 Shore D
Tensile Elongation	2.338%
Machinability	Excellent

SELLER CANNOT ANTICIPATE ALL CONDITIONS UNDER WHICH SELLER'S PRODUCTS, OR THE PRODUCTS OF OTHER MANUFACTURERS IN COMBINATION WITH SELLER'S PRODUCTS, MAY BE USED. SELLER ACCEPTS NO RESPONSIBILITY FOR RESULTS OBTAINED BY THE APPLICATIONS OF SELLER'S PRODUCTS OR THE SAFETY AND SUITABILITY OF SELLER'S PRODUCTS, EITHER ALONE OR IN COMBINATION WITH OTHER PRODUCTS. USERS ARE ADVISED TO MAKE THEIR OWN TEST TO DETERMINE THE SAFETY AND SUITABILITY OF EACH SUCH PRODUCT OR PRODUCT COMBINATION FOR THEIR OWN PURPOSES. UNLESS OTHERWISE AGREED IN WRITING, SELLER DELIVERS THE PRODUCTS WITHOUT WARRANTY OF ANY NATURE, STATED OR IMPLIED, AND BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR LOSS OR DAMAGE ARISING FROM THE HANDLING AND USE OF SAID PRODUCTS, WHETHER USED ALONE OR IN COMBINATION WITH OTHER PRODUCTS. PURCHASER WAIVES ANY CLAIM AGAINST SELLER FOR DIRECT, INDIRECT, CONSEQUENTIAL OR EXEMPLARY DAMAGES AGAINST SELLER, INCLUDING WITHOUT LIMITATION, DAMAGE WHICH MAY OCCUR AS A RESULT OF PURCHASER'S USE OR MISUSE OF THE PRODUCT OR THE PRODUCT'S FAILURE TO CONFORM TO ANY PARTICULAR SPECIFICATIONS.