



سپاهان پلیمر فام

## Sepahan Polymer Fam

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**RESIN C400/AC400**

**Epoxy resin**

**APPLICATIONS:** wide range of industrial composites and Adhesive aerospace aircraft repairs

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**Properties:**

- Adhesive bonding
- Rigid adhesive
- good mechanical properties
- Wet layup
- Flexible resin

**PRODUCT DATA:**

**RESIN C400**

Aspect(colour): clear light liquid

Viscosity at 25c (iso12058-1): 1160-1280 (mpas)

Density at 25c (iso 1675): 1.13-1.18 (g/cm3)

Flash point (iso2719): 205(c°)



## سپاهان پلیمر فام

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### AC400

Aspect(colour): clear liquid

Viscosity at 25c (iso12058-1): 83-134 (mpas)

Density at 25c (iso 1675): 0.98-0.99 (g/cm3)

Flash point (iso2719): 195(c°)

### MIX RATIO

COMPONENTS	PARTS BY WEIGHT	PARTS BY VOLUME
RC400	100	100
AC400	12	48

### INITIAL MIX VISCOSITY :

at 25c : 541-720 (mpas)

at 40c: 266-363 (mpas)

### POT LIFE:

at 25c:70 (min)

at 40c: 60 (min)



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### GEL TIME:

at60c:10 (min)

at80c:5

### Mechanical properties:

Tensile strength :	(mpa)	410
Elongation at tensile strength :	%	4.3-4.8
Ultimate strength:	(mpa)	410-418
SHEAR STRENG:	(mpa)	11-14
Compresion strength:	( psi)	35000
Peel strength:	(pli)	26

### GLASS TRANSITION TEMPRETURE:

cure	Tg©
2day 25c	68-79
3day 25c	71-78
12h80c	74-84



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FLEXTURAL TEST	CURE	48h25c	12h80c
(ISO178)			
Flextural strength :	(mpa)	450-465	460-472
Flextural modulus:	(mpa)	12350-14280	16890-16910

### HANDLING PRECAUTIONS:

Material is safety at workplace

Protective clothing: eyes

Gloves:essential

Contamination of the eyes by resin and hardner or mix should be related immediately by flushing with clean and running water for 10 to 15 minutes.



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