

Chetak Manufacturing Co.

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cenvar PRODUCT GUIDE: EPOXY POTTING, ENCAPSULATING & CASTING RESINS

	Hardener	Accele- rator Mixing Ratio pbw	Cold / Hot Curing	Curing Time	e Cured Mass	Viscosity after mix	Pot Life @ RT	Exotherm	Curing Schedule		Properties				
Product	Mixing Ratio pbw								Typical	for high properties	Electri- cal	Mechani- cal	Chem- ical	Thermal	Characteristics
UNFILLED & RIGID - COLD CURING															
cenvarEPS E01	X9 100 : 10	-	cold	very fast	rigid	medium to low	very short	vey high	20h/RT	3~7d/RT	* *	* *	\$ \$	*	medium viscosity, fast room temperature curing
	C13 100 : 55	-	cold	fast	rigid	medium to high	very short	high	24h/RT	7d/RT	* *	\$ \$\$	¢¢	❖	high viscosity, room temperature curing, lower shrinkage
cenvarEPS E01-LV	X9 100 : 10	-	cold	very fast	rigid	very low	very short	vey high	20h/RT	3~7d/RT	* *	\$ \$\$	\$ \$	\$	low viscosity, fast room temperature curing, better crack resistant than E01
	C16 100 : 55	-	cold	fast	rigid	very low	very short	high	24h/RT	7d/RT	* *	* *	\$ \$	\$	low viscosity, room temperature curing, crack resistant, lower shrinkage
FILLED & RIGID -	COLD CUR	ING													
cenvarEPS E21	X9 100 : 5	-	cold	fast	rigid	medium	short	moderate	20h/RT	3~7d/RT	* *	* *	\$\$	**	low shrinkage, better compressive strength & thermal conductivity, but lower tensile strength, better operating temperatures ALSO AVAILABLE IN BLACK, RED
	C16 100 : 25	-	cold	medium	rigid	medium	moderate	moderate	24h/RT	7d/RT	***	\$\$\$	\$ \$	*	
cenvarEPS E22	X9 100 : 5	-	cold	fast	rigid	medium	short	moderate	20h/RT	3~7d/RT	***	\$ \$\$	\$ \$	*	higher thermal conductivity, low shrinkage, better compressive strength, but lower tensile strength, high operating temperatures ALSO AVAILABLE IN BLACK, RED
	C16 100 : 20 ~ 25	-	cold	medium	rigid	medium	moderate	moderate	24h/RT	7d/RT	***	* *	* *	❖❖	
FILLED & SEMI-FLEXIBLE - COLD / HOT CURING															
cenvarEPS E31-TC	C16 2:1	-	cold / hot	fast	semi- flexible	medium	short	moderate	24h/RT	3d/RT	* **	\$	\$ \$	\$ \$	semi-flexible, high thermal conductivity, low shrinkage, better crack resistance, higher elongation, but lower HDT & flexural strength ALSO AVAILABLE IN BLACK, RED
	X52 3:1	-	cold / hot	medium	semi- flexible	medium	moderate	moderate	24h/RT	3d/RT	\$\$\$	\$	* *	**	



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	Hardener Mixing Ratio pbw	Accele- rator Mixing Ratio pbw	Cold / Hot Curing	Curing Time	Cured Mass	Viscosity after mix	Pot Life @ RT	Exotherm	Curing Schedule		Properties				
Product									Typical	for high properties	Electri- cal	Mechani- cal	Chem- ical	Thermal	Characteristics
GELCOAT - COLD	CURING														
cenvarEPS RED GelCoat	X9 100 : 10	-	cold	very fast	rigid	medium	very short	vey high	24h/RT	3~7d/RT	* *	* *	¢¢	*	red, medium viscosity, fast room temperature curing, low potlife, good HDT, excellent moisture & chemical resistance ALSO AVAILABLE IN BLACK
UNFILLED & RIGID	- HOT CURI	NG													
cenvarEPS	X5-L 100 : 20	-	hot	faster	rigid	medium	medium	very high	2h/80 + 2h/150	2h/80 + 6h/150	* *	* **	\$ \$	**	long pot life, B-Stage curing, good HDT
E01	AH11 100 : 80	A1 0.5~2	hot	moderate	rigid	medium	very long	low	2h/120 + 2h/150	2h/120 + 12h/180	* **	***	\$ \$	* *	low exotherm, long pot life, B-Stage curing, higher HDT
UNFILLED & SEMI-F	RIGID - HOT	CURING													
cenvarEPS E41-C	AH11 100 : 50	A1 0.5~1	hot	moderate	semi-rigid	very low	very long	low	2h/120 + 2h/150	2h/120 + 12h/180	* **	* *	\$ \$	\$ \$	semi-rigid, low exotherm, long pot life, B-Stage curing, low shrinkage, good HDT
FILLED & RIGID - H	HOT CURING														
cenvarEPS E54 Black	AH11 100 : 50	A1 0.5~1	hot	moderate	rigid	medium	very long	low	2h/120 + 2h/150	2h/120 + 12h/180	* **	* *	\$ \$	**	low exotherm, long pot life, B-Stage curing, low shrinkage, high HDT, better compressive str., elongation & thermal cond., but lower tensile str
cenvarEPS E55	AH11 100 : 50	A1 0.5~1	hot	moderate	rigid	high	very long	low	2h/120 + 2h/150	2h/120 + 12h/180	* **	* **	\$ \$	***	
SINGLE COMPON	IENT & UNFI	LLED -	HOT CURI	NG											
cenvarEPS E68-S	-	-	hot	very fast	rigid	low	stable at RT	low	2~4h / 140~160	8~12h / 140~160	* *	* **	\$ \$	* *	single component, stable at RT, tough resilent - cure, fast cure, high HDT and high mechanical properties
cenvarEPS E68-S / LV	-	-	hot	very fast	rigid	very low	stable at RT	low	2~4h / 140~160	8~12h / 140~160	* *	* *	\$ \$	***	
SINGLE COMPON	IENT & FILLI	ED - HO	T CURING												
cenvarSLT E70F-S	-	-	hot	very fast	rigid	low to medium	stable at RT	low	2~4h / 140~160	8~12h / 140~160	* *	**	* *	**	high heat resistant, high bond strength working upto 180°C. It can be trickle impregnated to hot rotating winding to completely fill into the gaps gives improved heat transfer READY TO USE PRODUCT
cenvarSLT E72F-S	-	-	hot	very fast	rigid	medium	stable at RT	low	2~4h / 140~160	8~12h / 140~160	* *	\$\$\$	* *	\$\$\$	

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