A Group Company of MITSUBISHI CHEMICAL

Description: CM-Preg F-P29 90/1000 CP012 48

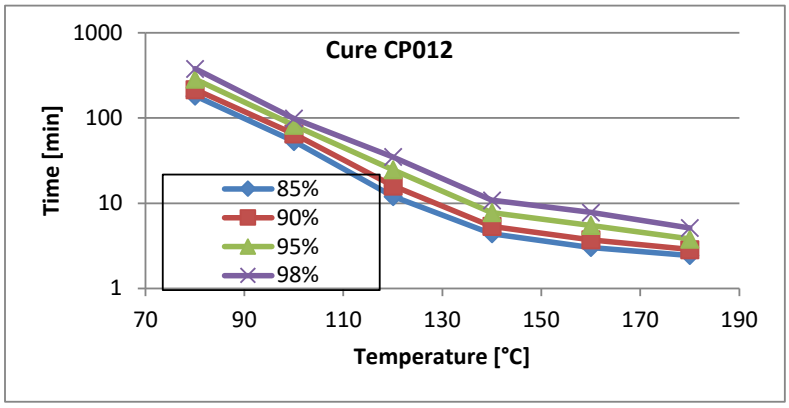
The CP012 Systems are modified Epoxy systems with outstanding fast curing properties. The resin system is mainly for industrial and automotive applications and suitable for press moulding

Benefits and Features:

Modified flow characteristics
short cure cycles < 8 min
Suitable for a wide temperature range

Matrix Properties:

		CP012	
min. Viscosity	mPas	3000	at 90°C / 1K/min
T_g (1h/160°C)	°C	160	
Color		natur	
Specials		n.a.	



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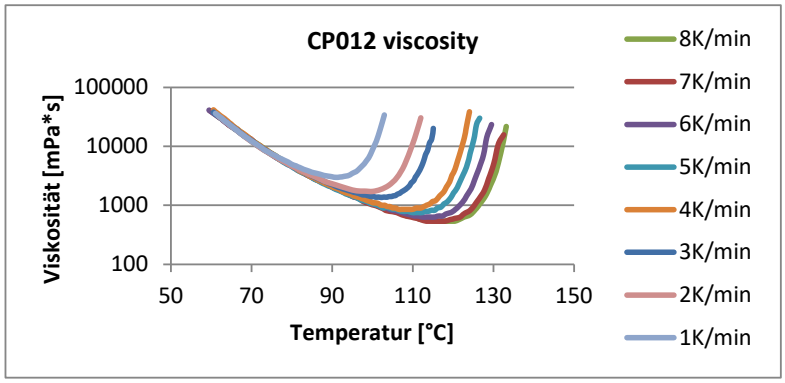

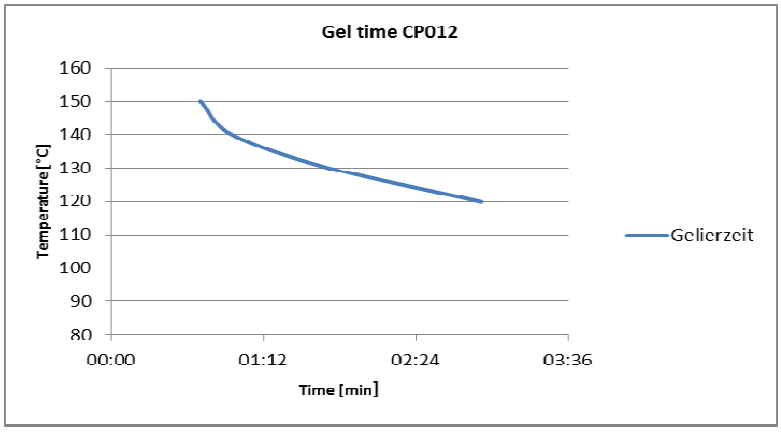

Storage Life and Storage Conditions

10 days	@	20 °C
12 month	@	-18 °C

Processing

Prepregs out of CP012 resin system sutable for fast press molding processes. The typical processing window is between 120°C and 165°C. The curing time varies from 8 min up to 30 minutes depending on temperature.

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Prepreg Properties:

Textur:	Epoxy Carbon Fabric Prepreg Plain

Fiber Areal weight:	g/m^2	DIN	29971	90
Resin Content:	%	DIN	2557 C	48
Prepreg Areal Weight:	g/m^2	DIN	2557 C	173
Width:	mm			1.000

Laminate-Properties (Example - HT - Carbon fiber / 60 Vol%)

Artikel				CM-Preg F	CM-Preg T
Grade				Köper 2/2	UD
FAW	g/m^2			200	250

Tensile Strength 0°	MPa	DIN	ISO 527	1100	1900
E-Modulus 0°	GPa	DIN	ISO 527	70	135
Flexural Strength	MPa	DIN	ISO 14125	975	1641
Flexural-Modulus 0°	GPa	DIN	ISO 14125	60	122
ILSF	MPa	DIN	EN 2563	50	85

additional mechanical properties available on request

Important

This is not a specification. All information is believed to be accurate in relation to the performance, storage and other characteristics of the product without acceptance of liability. Users are held to do their own tests to check the suitability of the product for its particular purpose

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