

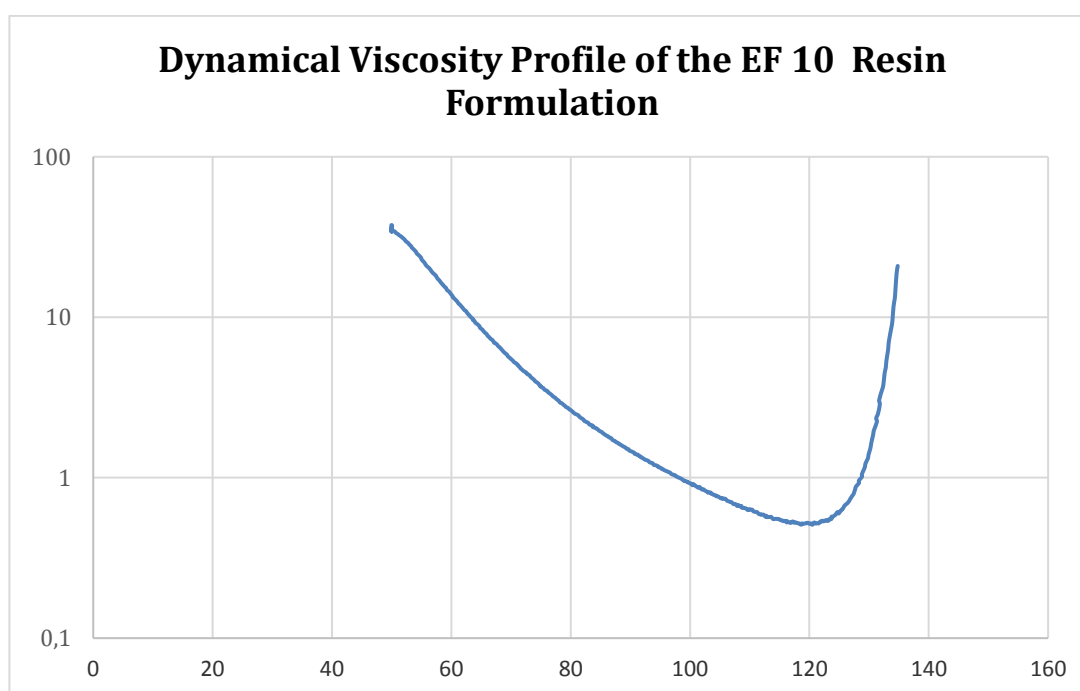
### TECHNICAL DATA SHEET

<b>Resin System</b>	EF10
<b>Applications</b>	Industrial composites, automotive
<b>Key Features</b>	Structural
<b>Cure Temperature</b>	135°C - 165°C
<b>Work Life</b>	28 days @ RT
<b>Storage Life</b>	1 year @ -18°C
<b>Fiber</b>	Carbon, E-glass, Aramid
<b>Weaving Style</b>	Plain, twill, UD
<b>Dry Fabric Areal Weight (gsm)</b>	200 - 600
<b>%Resin Content (by weight)</b>	38 - 48 ± 2

#### Cured Matrix Properties

Cured Matrix Properties (2h @ 140 °C)		
<b>Tensile Test (ISO 527-2)</b>	Tensile Strength (MPa)	46
	Young's modulus (GPa)	3,1
	Elongation at break (%)	2,1
	Shear modulus (MPa)	996
<b>Flexural Test (ISO 178)</b>	Flexural Strength (MPa)	128
	Flexural Modulus (GPa)	2,8
	Elongation at maximum (%)	6,1
<b>Tg (° C) (DMA)</b>	Onset of E'	≥170

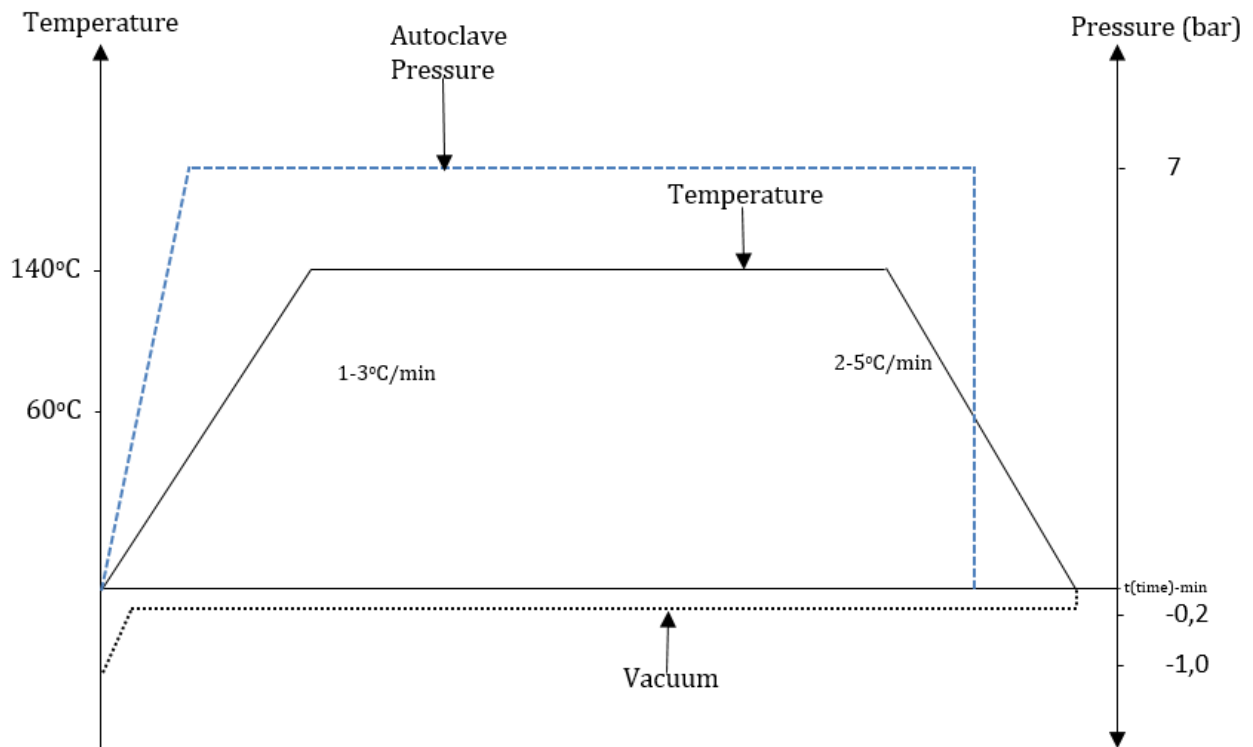
#### Resin Matrix Properties



**Cure Profile**

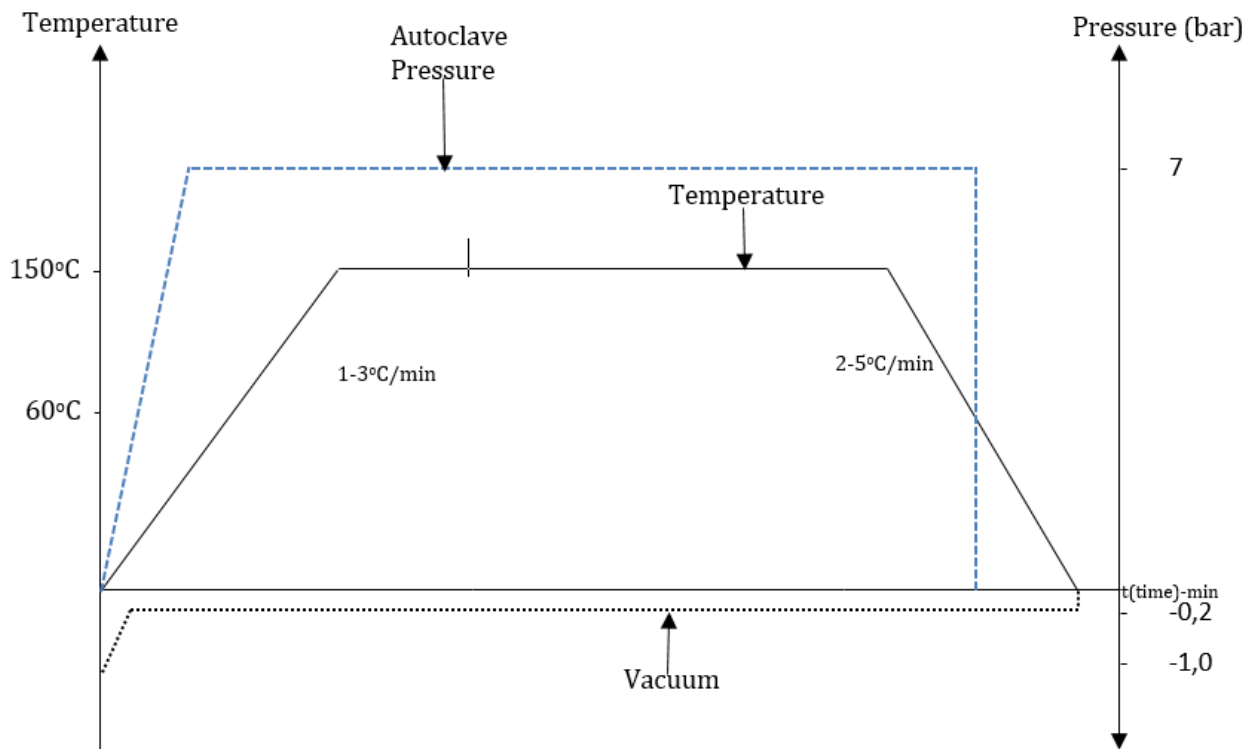
**Recommended Curing Cycle at 140 ° C in Autoclave**

1. Apply full vacuum (1 bar)
2. Apply 7 bar gauge autoclave pressure
3. Reduce the vacuum to a safety value of 0.2 bar when the autoclave pressure reaches approximately 1 bar gauge
4. Heat-up at 1 – 3 °C/minute to 140°C ± 5°C
5. Hold at 140°C ± 5°C for 120 minutes ± 5 minutes
6. Cool at 2 – 5 °C per minute
7. Vent autoclave pressure when the component reaches 60°C or below.



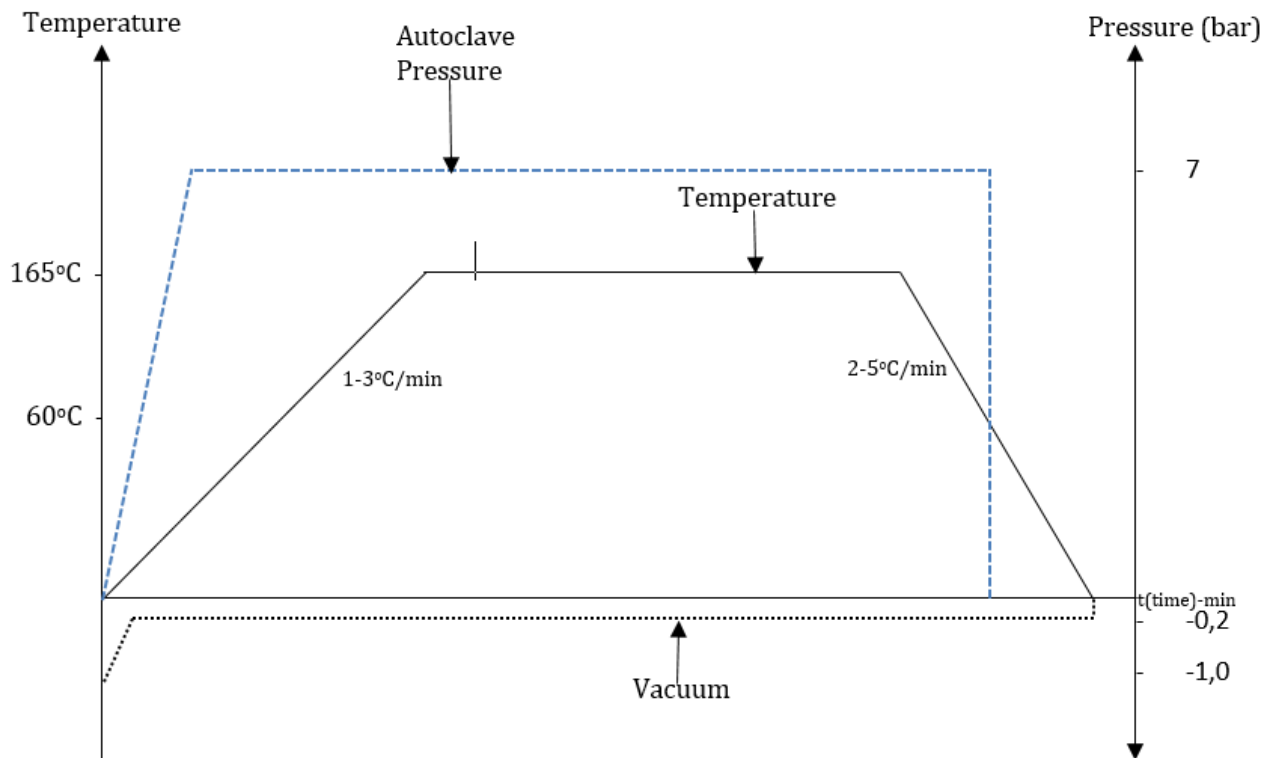
**Recommended Curing Cycle at 150 ° C in Autoclave**

1. Apply full vacuum (1 bar)
2. Apply 7 bar gauge autoclave pressure
3. Reduce the vacuum to a safety value of 0.2 bar when the autoclave pressure reaches approximately 1 bar gauge
4. Heat-up at 1 – 3 °C/minute to 150°C ± 5°C
5. Hold at 150°C ± 5°C for 90 minutes ± 5 minutes
6. Cool at 2 – 5 °C per minute
7. Vent autoclave pressure when the component reaches 60°C or below.



**Recommended Curing Cycle at 165 ° C in Autoclave**

1. Apply full vacuum (1 bar)
2. Apply 7 bar gauge autoclave pressure
3. Reduce the vacuum to a safety value of 0.2 bar when the autoclave pressure reaches approximately 1 bar gauge
4. Heat-up at 1 – 3 °C/minute to 165°C ± 5°C
5. Hold at 165°C ± 5°C for 90 minutes ± 5 minutes
6. Cool at 2 – 5 °C per minute
7. Vent autoclave pressure when the component reaches 60°C or below.



These cure cycles can be followed by a free-standing post-cure for 2 hours at 180°C to achieve a higher glass transition temperature.

[www.kordsaglobal.com](http://www.kordsaglobal.com)  
[reinforcer@kordsaglobal.com](mailto:reinforcer@kordsaglobal.com)

NOTICE –All rights reserved. Kordsa reserves the right to update, revise or modify such technical data and information at any time. The data disclosed herein is for information purposes only without any legal responsibility attributable to Kordsa. Kordsa recommends Customer’s own testing of the suitability of our products for its particular purpose. Kordsa makes no express or implied warranty or representation, including but not limited to the warranties of merchantability, commercial availability and/or fitness for a particular purpose.