

No. VIII Organizing Data Including Information about Test Conditions

Introduction:

GrafCompounder offers less flexibility than a table calculation program. However, information about test conditions or measures can still be easily incorporated into the “input data” window. You do not need an extra file with such information, nor do you need to compromise the structure of the GrafCompounder data table.

Example I:

Consider a block of rheological data under the "**Properties:**" cell, such as Mooney viscosity, scorch time, and vulcameter data. The Mooney value is measured at 100°C, while Mooney scorch times are measured at 125°C. You want to add a couple of vulcameter data measured at 165°C.

To organize these data sets effectively:

1. Insert a row with "Mooney" and "Mooney scorch – 120°C" under the "**Properties:**" cell.
2. This maintains the color coding: The content in the "**Properties:**" column remains blue, the numbers in the "**RecipeS:**" columns stay green, while the cells in the "Mooney" and "Mooney scorch" row left empty (Fig. 1).

If you delete "Mooneyscorch-120°C" to create an empty cell in the "**Properties:**" column, the terms "t5 (min)" and "t35 (min)" will turn black and shifting to right, as well as all values in the subsequent rows (Fig. 2). This color change indicates that the values in the "t5 (min)" and "t35 (min)" rows are not recognized for calculation like all numbers with shifted and have black color.

The absence of any value in the row: Mooney and Mooneyscorch has no effect on the function of the program.

Input data:

	e-51224	contr.	contr.	Cmp
GEL 51166				
Ingredients:	Recipes:			
DSN ID	c-51224	contr.	contr.	Cmp
RUN ORD				
SMR 10	100,00	100,00	100,00	
Ruß N 550	50,00	50,00	50,00	
Naftolen ZD	5,00	5,00	5,00	
ZnO spez.	5,00	5,00	5,00	
Stearinsäure	1,00	1,00	1,00	
Vulkanox 4020	2,00			
RhenogranS-80	1,50	1,30	1,30	
Rhenocure-AP5				
VulkalentE-80				
RhenogranTBBS-80	1,00	0,80	0,80	
Cure Rite18		1,20	1,20	
Rhenocure-M/G	1,00			
Properties:				
Mooney				
MI 1+4 / 100	48,00	38,00	42,00	
Mooney scorch 125C				
t5 (min)	35,19	29,53	29,30	
t35 (min)	41,24	32,25	31,39	
Vulcameter@150 °C				
t10 (min)	5,80	4,80	4,80	
t90 (min)	9,80	8,10	8,90	
Vmax (Nm/min)	0,19	0,09	0,10	
Fmax - Fmin (Nm)	0,56	0,76	0,60	

Input data:

	e-51224	contr.	contr.
GEL 51166			
Ingredients:	Recipes:		
DSN ID	c-51224	contr.	contr.
RUN ORD			
SMR 10	100,00	100,00	100,00
Ruß N 550	50,00	50,00	50,00
Naftolen ZD	5,00	5,00	5,00
ZnO spez.	5,00	5,00	5,00
Stearinsäure	1,00	1,00	1,00
Vulkanox 4020	2,00		
RhenogranS-80	1,50	1,30	1,30
Rhenocure-AP5			
VulkalentE-80			
RhenogranTBBS-80	1,00	0,80	0,80
Cure Rite18		1,20	1,20
Rhenocure-M/G	1,00		
Properties:			
Mooney			
MI 1+4 / 100	48,00	38,00	42,00
t5 (min)	35,19	29,53	29,30
t35 (min)	41,24	32,25	31,39
Vulcameter@150 °C			
t10 (min)	5,80	4,80	4,80
t90 (min)	9,80	8,10	8,90
Vmax (Nm/min)	0,19	0,09	0,10
Fmax - Fmin (Nm)	0,56	0,76	0,60

Example II:

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Suppose you want to separate the units of measurement from the measurements. To do this:

1. Create a new row and insert it **before** the **Ingredients:** and **Properties:** row.
2. In this new row, label the cell left of the "**Properties**" cell and label it "Units."

To insert the new row:

1. Click on the top of any cell in the first row.
2. Right-click to open the pull-down menu and select "insert empty column."

This updated file with the new column will be saved without losing any information.

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Hans-Joachim Graf

Input data:				
	e-51224	contr.	contr.	
	GEL 51106			
	Ingredients:	Recipes:		
	DSN ID	c-51224	contr.	contr.
	RUN ORD			
	SMR 10	100,00	100,00	100,00
	Ruß N 550	50,00	50,00	50,00
	Naftolen ZD	5,00	5,00	5,00
	ZnO spez.	5,00	5,00	5,00
	Stearinsäure	1,00	1,00	1,00
	Vulkanox 4020	2,00		
	RhenogranS-80	1,50	1,30	1,30
	Rhenocure-AP5			
	VulkalentE-80			
	RhenogranTBBS-80	1,00	0,80	0,80
	Cure Rite18		1,20	1,20
	Rhenocure-M/G	1,00		
Units	Properties:			
	Mooney			
Mooney units	MI 1+4 / 100	48,00	38,00	42,00
	Mooneyscorch 120°C			
min	t5 (min)	35,19	29,53	29,30
min	t35 (min)	41,24	32,25	31,39
	Vulcameter@150 °C			
min	t10 (min)	5,80	4,80	4,80
min	t90 (min)	9,80	8,10	8,90
Nm7min	Vmax (Nm/min)	0,19	0,09	0,10
Nm	Fmax - Fmin (Nm)	0,56	0,76	0,60