

PT. RUDOLF CHEMICALS INDONESIA

TEST REPORT

NO. REPORT: EC/IDN-02-0090

Customer:**PT DSSA I****Material:**Woven CD.10456 15OT 3/1, 2/1, (color: black), **DSSA I** material, ready for finish**Subject:**

Flame retardant finish

Evaluation:

- Burning behaviour acc. to **DIN 470-1/ISO 11612**
- Tearing strength acc. to **EN ISO 13937-2 (Fmed)**

Method and Recipe:

	I	UNIT
#Flame Retardant Finish		
RUCO-FLAM PCE-ID	500	g/L
RUCON DPO CONC-ID	40	g/L
RUCO-LUB KSAB-ID	10	g/L
PHOSPORIC ACID 85%	22	g/L
RUCOWET FRW	2	g/L
#Stage 1 – Flame Retardant Finish		
Padding		
Wet pick-up	74	%
Pressure	1.5	bar
Drying		
Duration	120	°C
Curing		
Duration	2	min
170		°C
2		min
#Stage 2 – Neutralize		
1 st Box		
Rinse	50	°C
Duration	15	sec
2 nd Box (+15 g/L SODA ASH)		
Rinse	50	°C
Duration	15	sec
3 rd Box (+15 g/L SODA ASH)		
Rinse	60	°C
Duration	15	sec
4 th Box (+15 g/L SODA ASH)		
Rinse	60	°C
Duration	15	sec
5 th Box		
Rinse	60	°C
Duration	15	sec
6 th Box (+2 g/L H ₂ O ₂ 50%)		
Rinse	60	°C
Duration	15	sec
Drain		
Drying	120	°C
Duration	3	min

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Result:

Burning Behaviour Acc. to DIN 470-1/ISO 11612

Edge ignition (Procedure B acc. to ISO 15025)	U		I		UNIT
	Warp	Weft	Warp	Weft	
Flame application time	10	10	10	10	sec
Average of after flame time (≤ 2 s)	-	-	0	0	sec
Average of afterglow time (≤ 2 s)	-	-	0	0	sec
Flaming debris	No	No	No	No	Yes/No
Molten debris	No	No	No	No	Yes/No
Flame reaches the top or side edges of specimen	Yes	Yes	No	No	Yes/No
Destroyed length	Burn out	Burn out	75/110	115/110	mm
Tearing strength acc. to EN ISO 13937-2 (Fmed)	18	11.50	11	9.59	N

Disclaimer:

However, this lab trial is only suggestions and cannot be used as an argument for public needs. Customers are strongly suggested to carry out tests independently in their own factory then the results are tested in independent lab/3rd party.

Approved by,



Reni Sariningsih
R&D Manager

 PT. RUDOLF CHEMICALS INDONESIA
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Prepared by,

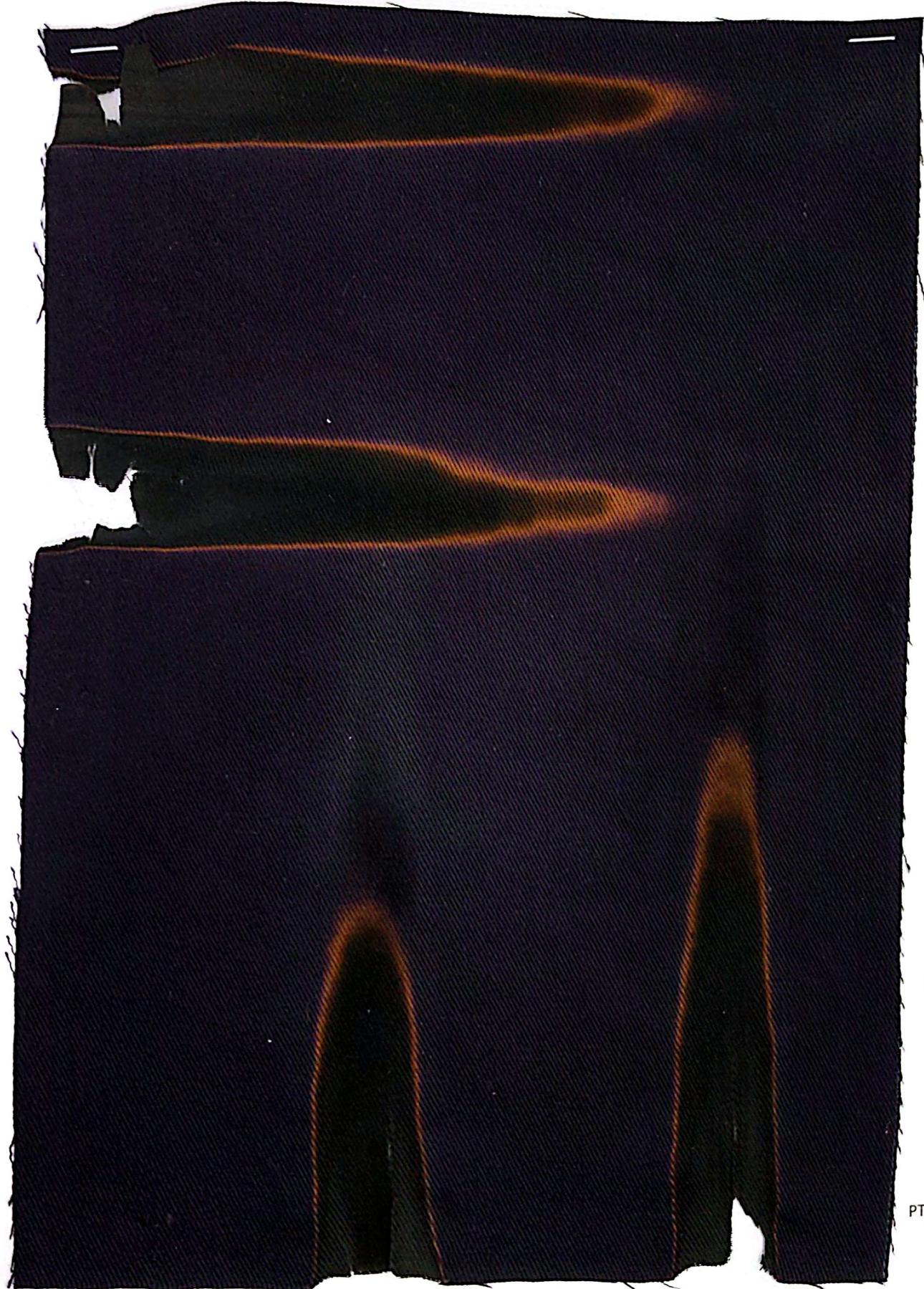


Sunandar
Application Lab



05/02/26/SN/3330

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PT. RCI



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Flame Retardant Finish



F.RD.001.03

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Dipindai dengan CamScanner