

	Universal Packaging Company (Pvt) Ltd	Effective Date
	Certificate Of Analysis	12.12.2022
	REC-QA-34-22	Rev:0
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Customer Name:	UNILEVER	Job Name:	REEL RIN WP 500G X 24 CP
Job card #:	23090016	Structure:	PET (10μ) + M.LDPE (60μ)
Dispatched Date:	13-Sep-23	Production Date:	10-Sep-23
Best Before:	6 Months	Sampling Plan:	SOP-QA-11-19
Vehicle Number:	C-1391	Dispatch Quantity:	406,353.00

S.NO	Parameters	Target	Min	Max	Test method	Unit	Results
1	Grammage	71.52	65.07	79.97	ISO 536	g/m <sup>2</sup>	74.8
2	Reel Width	450	449	451	Internal	mm	450
3	Coef of Fr. Dynamic face\face	0.25	0.22	0.28	ASTM D1894	Number	0.28
4	Coef of Fr. Dynamic Reverse\Reverse	0.23	0.2	0.26	ASTM D1894	Number	0.23
5	Coef of Fr. Static face\face	0.23	0.2	0.26	ASTM D1894	Number	0.25
6	Coef of Fr. Static Reverse\Face	0.25	0.22	0.28	ASTM D1894	Number	0.26
7	Lamination Strength	1.25	1.1	-	F 904-98	N/15mm	2.49
8	Repeat Length	220	218	222	Internal	mm	220
9	Seal Strength	10	7.3	-	ASTM F88	N/15mm	32
10	Tensile Strength @ Break (CD)	41	37	-	ASTM D882	N/mm <sup>2</sup>	39
11	Tensile Strength @ Break F <sub>max</sub> (CD)	45	37	-	ASTM D882	N/15mm	42
12	Tensile Strength @ Break (MD)	32	27	-	ASTM D882	N/mm <sup>2</sup>	31
13	Tensile Strength @ Break F <sub>max</sub> (MD)	35	27	-	ASTM D882	N/15mm	30
14	Thickness	72.75	65.98	79.53	DIN 53370	μ	74

**Remarks:** Storage condition, Temperature should be below 30°C & 50% humidity.

**Note:** System generated document signature donot required.

Universal Packaging Company(pvt) Ltd. Plot No : GA-65-66-A4-A5, Korangi Creek National Industrial park, Korangi Town  
Karachi,Pakistan