

	Universal Packaging Company (Pvt) Ltd		Effective Date
	Certificate Of Analysis		12.12.2022
	REC-QA-34-22		Rev:0
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<b>Customer Name:</b>	UNILEVER	<b>Job Name:</b>	SURF EXCEL RS.20 Q1'23 2L (TWO LANE)
<b>Job card #:</b>	23100174	<b>Structure:</b>	PET (10μ) + M.LDPE (25μ)
<b>Dispatched Date:</b>	26-Oct-23	<b>Production Date:</b>	25/Oct/23
<b>Best Before:</b>	6 Months	<b>Sampling Plan:</b>	SOP-QA-11-19
<b>Vehicle Number:</b>	TAN-526	<b>Dispatched Qty:</b>	1,078,332.00 /pcs

S.NO	Parameters	Target	Min	Max	Test method	Unit	Results
1	Grammage	39.32	36.09	42.55	ISO 536	g/m <sup>2</sup>	39.5
2	Reel Width	472	471	473	Internal	mm	472
3	Coef of Fr. Dynamic face\face	0.25	0.22	0.28	ASTM D1894	Number	0.26
4	Coef of Fr. Dynamic Reverse\Reverse	0.23	0.2	0.26	ASTM D1894	Number	0.24
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	Dart Impact	200	180	220	ASTMD1709	g	210
8	Lamination Strength	1.25	1.1	-	F 904-98	N/15mm	2.4
9	Repeat Length	120	119	121	Internal	mm	120
10	Seal Strength	30	22	-	ASTM F88	N/15mm	32
11	Tensile Strength @ Break (CD)	63	53	-	ASTM D882	N/mm <sup>2</sup>	64
12	Tensile Strength @ Break - F max (CD)	35	27	-	ASTM D882	N/15mm	34
13	Tensile Strength @ Break (MD)	54	43	-	ASTM D882	N/mm <sup>2</sup>	56
14	Tensile Strength @ Break - F max (MD)	30	22	-	ASTM D882	N/15mm	31
15	Thickness	37.32	34.09	40.55	DIN 53370	μ	38

**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