

	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 SURF EXCEL RS.20 Q1'23 2L (TWO LANE)
Job card #:	23080099	Structure:	PET (10μ) + M.LDPE (25μ)
Dispatched Date:	19-Aug-23	Production Date:	16-Aug-23
Best Before:	6 Months	Sampling Plan:	SOP-QA-11-19
Vechile Number:	TKE-421	Dispatch Quantity:	1205.45Kg

S.NO	Parameters	Target	Min	Max	Test method	Unit	Results
1	Grammage	39.32	36.09	42.55	ASTM-D3776	g/m ²	40.8
2	Reel Width	472	471	473	ISO-4592	mm	472
3	Coef of Fr. Dynamic face\face	0.25	0.22	0.28	ASTM D1894	Number	0.24
4	Coef of Fr. Dynamic Reverse\Reverse	0.23	0.2	0.26	ASTM D1894	Number	0.25
5	Coef of Fr. Static face\face	0.23	0.2	0.26	ASTM D1894	Number	0.26
6	Coef of Fr. Static Reverse\Face	0.25	0.22	0.28	ASTM D1894	Number	0.28
7	Lamination Strength	1.25	1.1	-	F 904-98	N/15mm	1.21
8	Repeat Length	120	119	121	UMA-5982	mm	120
9	Seal Strength	30	22	-	ASTM F88	N/15mm	51
10	Tensile Strength @ Break (CD)	63	53	-	ISO-527-3	N/mm ²	65
11	Tensile Strength @ Break-Fmax (CD)	35	27	-	ISO-527-3	N/15mm	34
12	Tensile Strength @ Break (MD)	54	43	-	ISO-527-3	N/mm ²	52
13	Tensile Strength @ Break-Fmax (MD)	30	22	-	ISO-527-3	N/15mm	32
14	Thickness	37.32	34.09	40.55	ASTM-F2251	μ	38
15	Weight	1.11	1.02	1.21	UMA-1324	g	1.186

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
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