

	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.50 Q1'23 2L
Job card #:	23090013	Structure:	PET (10μ) + M.LDPE (50μ)
Dispatched Date:	8-Sep-23	Production Date:	5-Sep-23
Best Before:	6 Months	Sampling Plan:	SOP-QA-11-19
Vehicle Number:	TAC 230	Dispatch Quantity:	376131/pcs

S.NO	Parameters	Target	Min	Max	Test method	Unit	Results
1	Grammage	62.32	56.79	67.85	ISO 536	g/m <sup>2</sup>	63
2	Reel Width	720	719	721	Internal	mm	720
3	Coef of Fr. Dynamic face\face	0.25	0.22	0.28	ASTM D1894	Number	0.23
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	0.27
7	Lamination Strength	1.25	1.1	-	F 904-98	N/15mm	2.4
8	Dart Impact	400	360	440	ASTMD1709	g	465
9	Repeat Length	140	139	141	Internal	mm	140
10	Seal Strength	10	7.3	-	ASTM F88	N/15mm	11.9
11	Tensile Strength @ Break (CD)	48	44	-	ASTM D882	N/mm <sup>2</sup>	51
12	Tensile Strength @ Break - F max (CD)	45	37	-	ASTM D882	N/15mm	47
13	Tensile Strength @ Break (MD)	37	32	-	ASTM D882	N/mm <sup>2</sup>	40
14	Tensile Strength @ Break - F max (MD)	35	27	-	ASTM D882	N/15mm	50
15	Thickness	62.32	56.59	68.05	DIN 53370	μ	64

**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