

<u>TEST REPORT</u>				
Report No.	MAN:HL:1548008977	ISSUE DATE: 16-Dec-2024		
GARWARE HI-TECH				
WALUJ MIDC AREA	AURANGABAD PUNE ROAD			
CHHATRAPATI SAM	IBHAJINAGAR-431133			
CONTACT PERSON	: PK NAIKNAWARE			
THE FOLLOWING S	AMPLE(S) WAS/WERE SUBMITTED	AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :		
SAMPLE DESCRIPT	TION 7 MIL CLEAR SAFETY F	ILM		
COLOUR	CLEAR			
STYLE NO	7 MIL CLEAR SAFETY F	ILM		
ORDER NO.	2300015636 / WSC			
SKU NO./ ITEM NO.	SAFETY WINDOW FILM			
COUNTRY OF DEST	INDIA			
COUNTRY OF ORIG	IN INDIA			
LAB PROVIDED DE	TAILS:			

CONDITION OF SAMPLE COMPLETE AND OK THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES: SGS MANESAR LABORATORY SAMPLE RECD ON 27-Nov -2024 **TESTING PERIOD**: 27-Nov-2024 - 16-Dec-2024

SUMMARY OF TEST RESULTS:

TESTS	PASS	FAIL	REMARKS
1. PEEL ADHESION TEST			SEE RESULT
2. TENSILE STRENGTH TEST			SEE RESULT
3. TEAR RESISTANCE TEST			SEE RESULT
4. PUNCTURE RESISTANCE TEST			SEE RESULT
Remarks: P=Pass			

Remarks:

F=Fail

TEST(S) RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S). RESULTS APPLY TO THE SAMPLE AS RECEIVED

Per Pro SGS India Pvt. Ltd.

SANDIP BHUSHAN **TECHNICAL MANAGER** Authorized Signatory-Mechanical Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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Statement of conformity is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing. Sample is not drawn by the Laboratory. Connectivity and product, Testing Laboratory, Plot no. 21, Sector 3, IMT Manesar, Gurugram District, Haryana- 122050 (India) t: (+91-124 678 7600

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TEST RESULTS:-				
1. <u>PEEL ADHESION TEST</u> :-				
METHOD: ASTM D 3330 / D 3330M-04 (2018)				
Test Condition: Type Of Macine Used Speed Of Peeling Sample Length Test Panel Material Sample Width Test Method Peeling Angle Dwell Time	 UTM 5 mm/sec 297mm Stainless Steel 24mm A 180° 72 Hours 			
S.NO.	Test Result (Peeling Strength N/10mm)			
1	1.402			
2	1.341			
3	1.313			
4	1.555			
5	1.355			
Mean	1.393			
Standard Deviation	0.096			

Tested By: CLEAR SAFETY FILM

Note: Peeling angle is not maintained 180° due to rigidness of sample. Dwell time has been specified by the customer.

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2. TENSILE STRENGTH TEST:

Method:ASTM D 882: 2018 Type of Machine Used: UTM Test Speed: 500 mm/ min Sample Size: Width: 10mm, Length: 150 mm, Initial Grip Separation: 50 mm Sample Type : Anisotropic

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S. No.	Observation (Machine direction)			
	Thickness (mm)	Tensile Strength at Break (Mpa)	% Elongation at break	
1	0.211	141.0	140	
2	0.210	141.0	140	
3	0.209	135.0	130	
4	0.210	133.0	140	
5	0.210	129.0	150	
Mean		136.0	140	
Standard Deviation		5.22	7.1	

S. No.	Observation (Cross direction)			
	Thickness (mm)	Tensile Strength at Break (Mpa)	% Elongation at break	
1	0.210	162.0	110	
2	0.208	156.0	110	
3	0.209	164.0	98	
4	0.207	160.0	110	
5	0.210	163.0	100	
Mean		159.0	106	
Standard Deviation		3.87	6.1	

Tested Item: CLEAR SAFETY FILM

Note:

Testing has been performed as per customer request.

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3.TEAR RESIS Method: ASTM Test Condition: Instrument Typ Sample type Speed of Testin No. of sample t Sample Size Direction	s: be : ng :	UTM Anisotropic 51 mm/min 10 (Each Direction) Width: 0.750", Length: 4" Machine direction		
	Sr No.	Thickness (micron)	Maximum Tear Resistance Force (N)	Maximum Extension (mm)
	1	208	96.0	6.9
	2	206	94.5	5.7
	3	208	94.3	5.9
	4	208	99.6	6.2
	5	211	102.0	6.0
	6	210	91.6	5.8
	7	208	88.7	5.9
	8	211	90.6	6.7
	9	211	96.4	6.8
	10	209	100.0	6.7
	Average	209	95.4	6.3
Stand	dard Deviation	2	4.32	0.5

TEST DEDODT

Direction	Cross Direction		
Sr No.	Thickness (micron)	Maximum Tear Resistance Force (N)	Maximum Extension (mm)
1	210	96.2	7.0
2	209	90.0	6.7
3	210	92.5	8.0
4	211	91.8	8.7
5	209	106.0	6.2
6	209	104.0	7.5
7	209	84.7	6.7
8	210	92.7	7.2
9	209	88.2	7.1
10	209	85.6	7.0
Average	210	93.2	7.2
Standard Deviation	1	7.12	

Tested Item: CLEAR SAFETY FILM

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4. PUNCTURE RESISTANCE TEST:

Method: EN 14477: 2004	_		
Test Conditions:			
Instrument Type	: UTM		
Speed of Testing	: 5 mm/sec		
No. of sample tested	: 10		
Side of the specimen Penetrated	: Outer to inner (Non Ad	hesive to adhesive side)	
S. No.		Test Result	
	Puncture Force at Break	Elongation at break	Energy (mJ)
	(N)	(mm)	
1	57.33	1.49	38.67
2	55.38	1.43	36.83
3	57.39	1.48	39.52
4	57.15	1.48	38.95
5	57.53	1.52	41.06
6	55.47	1.44	37.58
7	57.04	1.52	40.38
8	55.54	1.4	37.41
9	57.41	1.52	40.33
10	58.08	1.50	40.70
Avg.	56.83	1.48	39.14
Std. Dev.	0.98	0.04	1.50

Tested Item: CLEAR SAFETY FILM

Note:-

- Testing speed has been specified by the customer.
- Above all Testing has been performed on semi rigid sheet having adhesive and removing protection layer (Liner film removed as per customer request.

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