

**TEST REPORT**

**Report No. : MAN:HL:1348007255**

**DATE : 12<sup>th</sup> September, 2022**



**SUNFLEX RECYCLING PVT LTD**  
 BLOCK NO. 184, VILLAGE –CHHATRAL, CHHATRAL-ISAND ROAD,  
 TA. KALOL. DIST. GANDHINAGAR,  
 PINCODE-382224, GUJARAT  
 INDIA

**CONTACT PERSON : MR. MILIND PATEL, MR. SUNIT PATEL**

**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :**

<b>SAMPLE DESCRIPTION</b>	RUBBER ROLLS
<b>COLOUR</b>	BLACK WITH DARK BLUE SPECKLES
<b>COUNTRY OF ORIGIN</b>	INDIA
<b>SAMPLE RECD ON</b>	26/08/2022
<b>TEST PERFORMING DATE</b>	26/08/2022 TO 12/09/2022

**SUMMARY OF TEST RESULTS:**

TEST REQUESTED	CONCLUSION
1. ABRASION TEST	SEE RESULT
2. FLAMMABILITY TEST	PASS
3. DENSITY TEST	SEE RESULT
4. DUROMETER HARDNESS (SHORE A) TEST	SEE RESULT
5. TEAR RESISTANCE TEST	SEE RESULT
6. HARDNESS (SHORE A) TEST	SEE RESULT
7. TENSILE STRENGTH TEST	SEE RESULT
8. COMPRESSION SET TEST	SEE RESULT
9. COMPRESSION DEFORMATION TEST	SEE RESULT

**TEST(S) RESULT & METHOD:** PLEASE REFER TO NEXT PAGE(S)

Per Pro SGS India Pvt. Ltd.



**SANDIP BHUSHAN (Technical Manager)**  
**Authorized Signatory**

Email your Test Report Related Enquiries at [Feedback.HLT@sgs.com](mailto:Feedback.HLT@sgs.com)

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**TEST RESULTS :-**

**1. ABRASION TEST:**

**METHOD:** ASTM D 4060 : 2019

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±5% RH for 24 Hours, Test Conduct at 23±2°C & 50±5% RH

**Test performed on taber abrasion tester as per below.**

Wheel : CS-10  
 Test Load : 1000 g  
 No. of Cycles : 3000

**Observations:**

Sample No.	Before Weight (mg)	Weight (mg)			Wear Index (mg)		
		After 1000 cyces	After 2000 cyces	After 3000 cyces	After 1000 cyces	After 2000 cyces	After 3000 cyces
1	29973.5	29952.1	29942.9	29932.6	21.4	15.3	13.6
2	27906.6	27891.1	27882.2	27872.1	15.5	12.2	11.5
<b>Mean</b>	28940.05	28921.6	28912.5	28902.35	18.4	13.7	12.5

Sample No.	Before Weight (mg)	After 3000 cycles weight (mg)	Weight loss (mg)
1	29973.5	29932.6	40.9
2	27906.6	27872.1	34.5
<b>Mean</b>	28940.0	28902.3	37.7

**2. FLAMMABILITY TEST:**

**METHOD:** 49 CFR PART 571-302 FMVSS 302 : 2019

**Observations**

Specimen No.	Specimen Size			Burn Length (mm)	Time Taken (secs)	Rate of Combustion (mm/min)
	L	W	T	(D)	(T)	(D/T)*60
1	356	102	10.35	--	--	0
2	356	102	4.44	254	1100	13.85
3	356	102	10.38	--	--	0
4	356	102	6.31	--	--	0
5	356	102	8.23	--	--	0

**Requirement:** < 102 mm/min.

**Note:** Thickness variation observed, all sample different thickness of sample received.

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**3. DENSITY TEST:**

**METHOD:** ASTM D 792 : 2020 (Method – A)

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±10% RH for 40 Hours, Test Conduct at 23±2°C \$ 50±10% RH

**Observations**

Specimen No.	Density (g/cm <sup>3</sup> )
1	1.095
2	1.101
3	1.096
4	1.095
5	1.094
<b>Mean</b>	1.096
<b>Standard Deviation</b>	0.003

**4. DUROMETER HARDNESS (SHORE A) TEST:**

**METHOD:** ASTM D 2240 : 2015

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±10% RH for 40 Hours, Test Conduct at 23±2°C \$ 50±10% RH

**Observations**

Locations	Hardness (Shore A)
1	65
2	66
3	64
4	65
5	64
<b>Mean</b>	65

**5. TEAR RESISTANCE TEST:**

**METHOD:** ASTM D 624 : 2000 (RA : 2012)

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±5% RH for 24 Hours, Test Conduct at 23±2°C & 50±5% RH

Type Of Machine Used: CRE

Test Speed: 500 mm/min.

Specimen Type: C

**Observations**

Specimen No.	Tear Strength (kN/m)
1	14.60
2	17.30
3	23.81
4	14.76
5	18.75
<b>Mean</b>	17.30

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**6. HARDNESS (SHORE A) TEST:**

**METHOD:** ASTM D 2240 : 2015

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±10% RH for 40 Hours, Test Conduct at 23±2°C & 50±10% RH

**Observations**

Locations	Hardness (Shore A)
1	65
2	66
3	65
4	65
5	65
<b>Mean</b>	65

**7. TENSILE STRENGTH TEST:**

**METHOD:** ASTM D 412 : 2016

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±5% RH for 24 Hours, Test Conduct at 23±2°C & 50±5% RH  
 Type Of Machine Used: CRE  
 Test Speed: 500 mm/min.

**Observations**

Specimen No.	Tensile Strength (MPa)
1	2.41
2	2.44
3	2.49
4	2.39
5	2.76
<b>Mean</b>	2.44

**8. COMPRESSION SET TEST:**

**METHOD:** ASTM D 395 : 2018, Method – B

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±5% RH for 24 Hours  
 Compression: 25% thickness  
 Compression Condition: at 100°C for 72 hours

**Observations**

Specimen No.	Compression Set (%)
1	91.42
2	88.85
3	82.14
<b>Mean</b>	87.47

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**9. COMPRESSION DEFORMATION TEST:**

**METHOD:** ISO 815-1 : 2019 (Method – A)

**Test Condition:** Pre-Condition the specimens at 23±2°C & 50±5% RH for 16 Hours

Compression: 25% thickness

Compression Condition: at 100°C for 72 hours

**Observations**

Specimen No.	Compression Deformation Set (%)
1	84.10
2	81.44
3	84.21
<b>Mean</b>	84.10

**Note:** Above all testing has been performed as per customer request.

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Sample as Received



\*\*\*\*\* END OF REPORT\*\*\*\*\*