

सिपेट : पेट्रोकेमिकल्स तकनीकी  
संस्थान ( आई.पी.टी. )

( पूर्व में केंद्रीय प्लास्टिक्स इंजीनियरिंग एवं तकनीकी संस्थान )

रसायन एवं पेट्रो-रसायन विभाग  
रसायन एवं उर्वरक मंत्रालय, भारत सरकार  
प्लॉट : नं 630 फेज-4, जी.आई.डी.सी., वटवा, अहमदाबाद-382445.  
दूरभाष : (079) 40103900-902 फैक्स : (079)-40083905  
ईमेल : cipetahmd@gmail.com, ahmedabad@cipet.gov.in  
वेबसाइट : www.cipet.gov.in  
मुख्यालय : सिपेट, गिण्डी, चेन्नै - 600 032



CIPET : INSTITUTE OF PETROCHEMICALS  
TECHNOLOGY (IPT)

(Formerly Central Institute of Plastics Engineering & Technology)

Department of Chemicals & Petrochemicals  
Ministry of Chemicals & Fertilizers, Govt. of India  
Plot No. 630, Phase-IV, G.I.D.C., Vatva, Ahmedabad-382445  
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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

श्रृंखला:बी / Series : C

परीक्षण रिपोर्ट / TEST REPORT

क्र.सं / S.L. No.

22402

को जारी / Issued to **Gulmohar Pack-Tech India Pvt. Ltd**  
Sr. No. 80/11, Plot No. 1,2,3,  
Gulmohar Tech Park, Bhosari Alandi Road,  
Dighi Magzine Chowk, Behind Pragati Hotel,  
Pune - 412 105

रिपोर्ट सं / Test Report No : 5789

दिनांक / Dated : 26.06.2024

संदर्भ / Your Ref. No. : Letter

As per part C

दिनांक / Dated : 12.03.2024

मानक के अनुसार टेस्ट रिपोर्ट

Test Report as per Standard :

PARTICULARS OF SAMPLE SUBMITTED

- a) Name of Sample ( as stated by party) : **Thermo Shrink Film – SustainoWrap®**  
b) Grade / variety / type / size / class : 200 Micron PE–Shrink Film  
c) Declared value, if any : NA  
d) Code No. : NA  
e) Batch No. and Date of Manufacture : NA  
f) Quantity : 02 Nos.  
g) Mode of Packing : Packed in bag  
h) Date of Receipt : 18.03.2024  
i) Date of Starting : 19.03.2024  
j) Date of Completion : 11.06.2024  
k) Sealed or not : NA  
l) Any other information : Payment intimation on 26.06.2024

PART B

SUPPLEMENTARY INFORMATION

- a) Reference to sampling procedure : Samples Supplied by the Party  
b) Supporting documents for the measurement taken and result derived : As per Part C  
c) Deviation from the test method as prescribed in relevant work Instructions, if any : Not Applicable

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**सिपेट : पेट्रोकेमिकल्स तकनीकी  
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**प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE**

**Thermo Shrink Film – SustainoWrap®**

200 Micron PE–Shrink Film

Test Report No.: **5789**

Dated : 26.06.2024

**PART C  
TEST RESULTS**

Sr. No.	Test	Test Method	Unit	Results Obtained
1	Average Thickness	IS 2508 : 2016	Micron	198
2	Tensile Strength at Yield Machine Direction	ASTM D 882	kg/cm <sup>2</sup>	138.8
	Transverse Direction			131.2
	Tensile Strength at Break Machine Direction		kg/cm <sup>2</sup>	213
	Transverse Direction			197
	Elongation at Yield Machine Direction		%	16
Transverse Direction	66			
3	Elongation at Break Machine Direction	ASTM D 1709	g	856
	Transverse Direction			923
4	Dart Impact Strength at 1.5 mtr height, 600 gm load	ASTM D 1922	gmf	610
4	Tear Strength Machine Direction	ASTM D 1922	gmf	2022
	Transverse Direction			3622
5	After UV Exposure at 1500 hrs. (UVB) 1) Light Cycle 0.63 w/m <sup>2</sup> , 60°C- 4 hrs 2) Condensation Cycle 50°C - 4 hrs	ASTM G 154		
	Tensile Strength at Yield Machine Direction	ASTM D 882	kg/cm <sup>2</sup>	129.8
	Transverse Direction			120.7
	Tensile Strength at Break Machine Direction		kg/cm <sup>2</sup>	156.6
Transverse Direction	152.6			

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सिपेट : पेट्रोकेमिकल्स तकनीकी  
संस्थान ( आई.पी.टी. )

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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

Thermo Shrink Film – SustainoWrap®  
200 Micron PE–Shrink Film

Test Report No.: 5789  
Dated : 26.06.2024

PART C  
TEST RESULTS

Sr. No.	Test	Test Method	Unit	Results Obtained
5	Elongation at Yield Machine Direction	ASTM D 882	%	14
	Transverse Direction			68
	Elongation at Break Machine Direction		%	595
	Transverse Direction			805
6	Surface Finish (Visual)	As per customer specification	---	Matt
7	Colour (Visual)		---	White

Note : i) Statement of Conformity & Decision Rule (if any) : NA  
ii) Opinion & Interpretation : NA

PART D

REMARKS : Nil

NOTE

- 1 The results related only to the items tested
- 2 The report shall not be reproduced in full/part without written approval of the laboratory
- 3 This Test Report/Certificate is issued only for the samples submitted to CIPET.
- 4 The results stated above related only to the items tested.
- 5 The quality of the subsequent production lot has to be ensured by the purchaser.

Authorised Signatory

भरथ के. एल. / BHARATH K. L.  
सहा. तक. अधिकारी / Asst. Technical Officer

Authorised Signatory

3 of 3  
किर्ती डी. त्रिवेदी / Kirti D. Trivedi  
तक. अधिकारी / Technical Officer

सिपेट : पेट्रोकेमिकल्स तकनीकी  
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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

श्रृंखला: नो / Series : C

परीक्षण रिपोर्ट / TEST REPORT

क्र.सं / S.L. No.

22403

को जारी / Issued to : **Gulmohar Pack-Tech India Pvt. Ltd**  
Sr. No. 80/11, Plot No. 1,2,3,  
Gulmohar Tech Park, Bhosari Alandi Road,  
Dighi Magzine Chowk, Behind Pragati Hotel,  
Pune - 412 105

रिपोर्ट सं / Test Report No : **5790**  
दिनांक / Dated : 26.06.2024  
संदर्भ / Your Ref. No. : Letter  
दिनांक / Dated : 12.03.2024

मानक के अनुसार टेस्ट रिपोर्ट  
Test Report as per Standard :

As per part C

**PART A**  
PARTICULARS OF SAMPLE SUBMITTED

a) Name of Sample ( as stated by party ) : **Thermo Shrink Film – SustainoWrap®**  
b) Grade / variety / type / size / class : **300 Micron PE–Shrink Film**  
c) Declared value, if any : **NA**  
d) Code No. : **NA**  
e) Batch No. and Date of Manufacture : **NA**  
f) Quantity : **02 Nos.**  
g) Mode of Packing : **Packed in bag**  
h) Date of Receipt : **18.03.2024**  
i) Date of Starting : **19.03.2024**  
j) Date of Completion : **11.06.2024**  
k) Sealed or not : **NA**  
l) Any other information : **Payment intimation on 26.06.2024**

**PART B**  
SUPPLEMENTARY INFORMATION

a) Reference to sampling procedure : **Samples Supplied by the Party**  
b) Supporting documents for the measurement taken and result derived : **As per Part C**  
c) Deviation from the test method as prescribed in relevant work Instructions, if any : **Not Applicable**

1 of 3

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प्लास्टिक परीक्षण केंद्र / PLASTIC TESTING CENTRE

Thermo Shrink Film – SustainoWrap®  
300 Micron PE–Shrink Film

Test Report No.: 5790  
Dated : 26.06.2024

PART C  
TEST RESULTS

Sr. No.	Test	Test Method	Unit	Results Obtained
1	Average Thickness	IS 2508 : 2016	Micron	305
2	Tensile Strength at Yield Machine Direction	ASTM D 882	kg/cm <sup>2</sup>	161.2
	Transverse Direction			153.6
	Tensile Strength at Break Machine Direction		kg/cm <sup>2</sup>	255
	Transverse Direction			228
	Elongation at Yield Machine Direction		%	17
	Transverse Direction			20
3	Dart Impact Strength at 1.5 mtr height, 600 gm load	ASTM D 1709	g	873
				913
4	Tear Strength Machine Direction	ASTM D 1922	gmf	3008
	Transverse Direction			3584
5	After UV Exposure at 1500 hrs. (UVB) 1) Light Cycle - 0.63 w/m <sup>2</sup> , 60°C - 4 hrs 2) Condensation Cycle 50°C - 4 hrs	ASTM G 154		
	Tensile Strength at Yield Machine Direction	ASTM D 882	kg/cm <sup>2</sup>	145
	Transverse Direction			135
	Tensile Strength at Break Machine Direction		kg/cm <sup>2</sup>	229
Transverse Direction	220			

2 of 3

*[Signature]*

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Thermo Shrink Film – SustainoWrap®  
300 Micron PE–Shrink Film

Test Report No.: 5790  
Dated : 26.06.2024

PART C  
TEST RESULTS

Sr. No.	Test	Test Method	Unit	Results Obtained
5	Elongation at Yield Machine Direction	ASTM D 882	%	14
	Transverse Direction			17
	Elongation at Break Machine Direction		%	812
	Transverse Direction			989
6	Surface Finish (Visual)	As per customer specification	---	Matt
7	Colour (Visual)		---	White

Note : i) Statement of Conformity & Decision Rule (if any) : NA  
ii) Opinion & Interpretation : NA

PART D

REMARKS : Nil

NOTE

- 1 The results related only to the items tested
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