

केंद्रीय पेट्रोसायन अभियांत्रिकी एवं
प्रौद्योगिकी संस्थान (सिपेट)
कौशल एवं तकनीकी सहायता
केन्द्र (सी.एस.टी.एस)

रसायन एवं पेट्रोसायन विभाग,
रसायन एवं उर्वरक मंत्रालय, भारत सरकार
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मुख्यालय : सिपेट, गिण्डी, चैन्नई-600 032



CENTRAL INSTITUTE OF PETROCHEMICALS
ENGINEERING & TECHNOLOGY (CIPET)
CENTRE FOR SKILLING AND
TECHNICAL SUPPORT (CSTS)

Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers, Govt. of India
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Head Office : CIPET, Guindy, Chennai-600 032

PLASTICS TESTING CENTRE

TEST CERTIFICATE

Issued to:

M/s. Mono Industries,
WH-91, Mayapuri Industrial Area,
Phase-I, New Delhi-110064.

ULR-TC708224000001911F
TEST REPORT NO. : 1197
Dated : 23.08.2024

Your Ref. No. & Dated : --, Dated 19.07.2024 & mail dated 21.08.2024
W.O. No. : 983

Test Report as per Standard: As mentioned in PART "C"

PART - A

PARTICULARS OF SAMPLE SUBMITTED

a) Name of Sample	: Polyethylene Films and Sheets - Specification
b) Grade/Variety/Type/Size/Class	: Type-IV, Thickness 500 micron
c) Declared Value, if any	: NIL
d) Code No.	: NIL
e) Batch No. and Date of Manufacturing	: NIL
f) Quantity	: 01 No. x (05 mtr. X 01 mtr.)
g) Mode of Packing	: NIL
h) Sealed or not	: NIL
i) Date of Receipt	: 19.07.2024
j) Date of completion	: 23.08.2024
k) Any other information	: NIL

PART - B

SUPPLEMENTARY INFORMATION

i.	Reference to sampling procedure	: NIL
ii.	Supporting documents for the measurement taken and result derived	: NIL
iii.	Deviation from the test method as prescribed in relevant work instruction if any	: NIL

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CIPET-JAIPUR

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TEST REPORT NO. : 1197

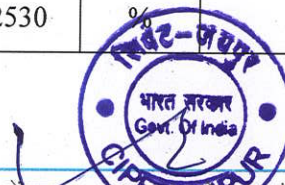
Dated : 23.08.2024

PART - C
TEST RESULTS

Sample: Polyethylene Films and Sheets - Specification, Type-IV, Thickness 500 Micron, As per IS: 2508-2016 with Amendment No. 1, 2 & 3

S. No.	Clause	Name of the test	Test Method	Unit	Specified value	Test Value
01.	5.1.1	Appearance	IS: 2508-2016	---	The film & sheets shall be uniform in colour, texture and finish. The material shall be substantially free from pin holes and dispersed raw materials and particles of foreign matters. There should be no holes, tears or blisters.	The Film is uniform in colour, textures and finish. The material is substantially free from pin holes and dispersed raw material and particles of foreign matter. There is no other visible defect such as holes, tear or blisters.
02.	5.1.2	Film form	IS: 2508-2016	---	The sample shall be in the form of flat sheet/rolls/ or in flat tubing or in any other form as agreed to between the supplier and the purchaser.	The sample is in the form of flat sheet.
03.	5.1.3	Odour	IS: 2508-2016	---	The film shall be free from any objectionable odour.	The film is free from objectionable odour.
04.	5.1.4	Density @ 27°C (Black Compound)	IS: 13360 (Part 3 Sec 1)	g/ml	≥ 0.940	0.947
05.	5.1.5	Melt Flow Index @ 190°C & 2.16 Kg. load	IS: 13360 (Part 4 Sec 1)	gm/10 min.	0.10 to 1.2	0.360
06.	5.1.6 (a)	Carbon Black Content (Black Compound)	IS: 2530	%	2 to 3	2.50

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Signature

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TEST RESULTS

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S. No.	Clause	Name of the test	Test Method	Unit	Specified value	Test Value
07.	5.1.6 (b)	Ash Content	IS: 13360 (Part 8 Sec 8)	%	Shall be less than 0.2	0.07
08.	5.1.6 (c)	Carbon Black Dispersion (Black Compound)	IS: 2530	---	Shall be Satisfactory	Satisfactory
09.	5.2.1 & 5.2.2	Nominal thickness (Avg.)	IS: 2508- 2016	µm	500	511
10.	5.2.1 & 5.2.2	Nominal width (Avg.)	IS: 2508- 2016	mm	1000	1008
11.	5.2.2	Tolerance on thickness	IS: 2508- 2016	%	-10, + 20	+10.20
12.	5.2.3	Tolerance on width	IS: 2508- 2016	mm	-50, + 100	+8
9.1 Table-4						
13.	i)	Tensile Properties (Avg.) a) Yield Strength b) Break Strength c) yield elongation d) break elongation	IS: 13360 (Part 5/Sec 1) & IS: 13360 (Part 5/Sec 3)	N/mm ² N/mm ² % %	7 (minimum) 13 (minimum) 12 (minimum) 700 (minimum)	15.16 22.78 18.19 750.00

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S. No.	Clause	Name of the test	Test Method	Unit	Specified value	Test Value
14.	ii)	Tear Resistance (Avg.)	IS: 2508-2016 (Annex B)	N	62 (minimum)	79
15.	iii)	Puncture Resistance	IS: 2508-2016 (Annex C)	N	160 (minimum)	166

PART - D:

REMARKS : NIL

NOTE :-

1. This Test Report / Certificate is issued only for the samples submitted to CIPET.
2. The results stated above related only to the items tested.
3. The quality of the subsequent production lot has to be ensured by the purchaser.
4. Any discrepancy in this report shall be brought to the notice of CIPET: CSTS-Jaipur within 30 days from the date of issue.

Dr. Bishnu Prasad Panda (Manager-Technical)
AUTHORIZED SIGNATORY



Sanjay Choudhry (Principal Director & Head)
AUTHORIZED SIGNATORY

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