

PARAFFIN WAX
IS 4654:1993

CHARACTERISTICS	REQUIREMENT			METHOD OF TEST, APPENDIX
	TYPE 1	TYPE 2	TYPE 3	
Melting point (cooling curve) °C	45-75	45-75	45-75	A
Ash, % mass, max.	0.03	0.03	0.03	P:4
Acidity:				
a) Organic (mg KOH/g)	0.10	0.10	0.01	P:2
b) Inorganic (mg KOH/g, max.)	0.02	0.02	0.02	P:2
Saponification value, max.	1.0	1.0	1.0	P:55
Oil Content, % mass, max.	0.5	0.5	3.5	B
Colour:				
a) Lovibond, in 18 in cell, max	1.0Y	2.0Y	--	P:13 Method A
b) ASTM, max	--	--	2.0+	P:12
Acid discolouration test or	To pass the test	--	--	C
Ultra Violet (UV) absorbance per centimeter path length	\$			D
Odour, max.	1	--	--	E

***Method of test for petroleum and its products**

When ASTM colorimeter is not available, the colour may be determined by Lovibond tintometer in accordance with method 'A' in P:13 of IS:1448, using ¼ inch cell. The corresponding colour requirements are 4.5 Y + 0.4 R Max.

\$ 280 millimicron 0.15 Max.
290-299 millimicron 0.12 Max.
300-359 millimicron 0.80 Max.
360-400 millimicron 0.02, Max.

A, B, C, D, E – See Appendix A, B, C, D, E of IS 4654:1993

PARAFFIN WAX#
TYPE 1
TYPICAL TEST RESULTS

CHARACTERISTICS	TEST METHOD	REQUIREMENT AS PER IS 4654	MAX	MIN	TYPICAL	MANUFACTURING SPECS
Melting Point (Cooling curve), °C	IS:4654 (ANNEX 'A')	45 to 75	62	61.8	62	60-65
	IS 1448					
Ash, % wt.	P:4	0.03 (Max)	NIL	NIL	0.00	0.03 (Max)
Acidity						
a) Organic, mg KOH/ g	P:2	0.10 (Max)	NIL	NIL	0.00	0.10 (Max)
b) Inorganic, mg KOH/ g	P:2	0.02 (Max)	NIL	NIL	0.00	0.02 (Max)
Saponification Value	P:55	(Max)	NIL	NIL	NIL	(Max)
Oil content, % wt.	IS:4654 (ANNEX 'B')	0.50 (Max)	0.49	0.41	0.48	0.50 (Max)
Tint, Lovibond in 18"Cell	IS:1448 P:13 Method A	1.0Y (Max)	0.5	0.2	0.3	0.5Y (Max)
	IS:4654					
Acid discolouration test	(ANNEX 'C')	To pass the test	2.0/0.8	1.5/0.6	Passes	To pass the test
Ultra Violet (UV) absorption per cm path length	(ANNEX D)					
280 – 289 Millimicrons		0.15 (Max)		0.14	0.11	0.15 (Max)
290 – 299 Millimicrons		0.12 (Max)		0.12	0.1	0.12 (Max)
300 – 359 Millimicrons		0.08 (Max)		0.08	0.04	0.08 (Max)
360 – 400 Millimicrons		0.02 (Max)		nil	nil	0.02 (Max)
Odour	(ANNEX E)	1 (Max)		NIL	NIL	1 (Max)

Available ex Digboi only.

PARAFFIN WAX#
TYPE 2
TYPICAL TEST RESULTS

CHARACTERISTICS	TEST METHOD	REQUIREMENT AS PER IS 4654	MAX	MIN	TYPICAL	MANUFACTURING SPECS.
Melting Point (Cooling curve), °C	IS:4654-1993 (ANNEX A)	45 to 75	62.2	61.8	62	60 to 65
	IS:1448					
Ash, % wt.	P:4	0.03 (Max)	NIL	NIL	0.00	0.03 (Max)
Acidity:						
a) Organic, mg KOH/g	P:2	0.10 (Max)	NIL	NIL	0.00	0.10 (Max)
b) Inorganic, mg KOH/g	P:2	0.02 (Max)	NIL	NIL	0.00	0.02 (Max)
Saponification Value	P:55	1.0 (Max)	NIL	NIL	NIL	1.0 (Max)
	IS:4654					
Oil Content, % wt	(ANNEX B)	0.50 (Max)	0.5	0.39	0.48	0.50 (Max)
	IS:1448					
Colour, Lovibond in 18" Cell	P:13	2.0Y (Max)	0.5	0.2	0.3	0.5Y (Max)

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PARAFFIN WAX#
TYPE 3
TYPICAL TEST RESULTS

CHARACTERISTICS	TEST METHOD	REQUIREMENT AS PER IS 4654	MAX	MIN	TYPICAL	MANUFACTURING SPECS
Melting Point (Cooling curve), °C	IS:4654-1993 (ANNEX A)	45 to 75	60.4	58.3	59	55 to 60
Ash, % wt.	IS:1448 P:4	0.03 (Max)	NIL	NIL	0.00	0.03 (Max)
Acidity:						
a) Organic, mg KOH/g	P:2	0.10 (Max)	NIL	NIL	0.00	0.10 (Max)
b) Inorganic, mg KOH/g	P:2	0.02 (Max)	NIL	NIL	0.00	0.02 (Max)
Saponification Value	P:55 IS:4554	1.0 (Max)	NIL	NIL	Less than 1.0	1.0 (Max)
Oil Content, % wt.	(ANNEX B) IS:1448	3.50 (Max)	3.49	1.65	3	3.5(Max)
Colour, ASTM	P:12	2.0 (Max)	<2.0	<1.0	<1.0	2.0 (Max)

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