



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

### CERTIFICATE OF ACCREDITATION

#### INDIAN INSTITUTE OF PACKAGING

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

E-2, M.I.D.C. Area, Chakala, Andheri (East), Mumbai

in the field of

**CHEMICAL TESTING**

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**Certificate Number** T-0687

**Issue Date** 04/06/2011

**Valid Until** 03/06/2013

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Signed for and on behalf of NABL



Rini Narayan  
Convener



Anil Relia  
Director



Dr. T. Ramasami  
Chairman



# रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन  
प्रयोगशाला प्रत्यायन बोर्ड  
विज्ञान एवं प्रौद्योगिकी विभाग, भारत

प्रत्यायन प्रमाण-पत्र

**भारतीय पैकेजिंग संस्थान**

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

**मुम्बई**

में स्थित इसकी सुविधाओं के लिए

**रसायनिक परीक्षण**

के क्षेत्र में किया गया।

प्रमाण-पत्र संख्या प-0687

जारी करने की तिथि 04/06/2011

वैधता की तिथि 03/06/2013

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

रिनी नारायण

रिनी नारायण  
संयोजक

अनिल रेलिण

अनिल रेलिण  
निदेशक

डा. टी. रामसामी

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अध्यक्ष



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Laboratory	Indian Institute of Packaging, E-2, M.I.D.C. Area, Chakala, Andheri (East), Mumbai		
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Field	Chemical Testing	Issue Date	04.06.2011
Certificate Number	T-0687	Valid Until	03.06.2013
Last Amended on	-	Page	1 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1.	PAPER, PAPERBOARD & CORRUGATED FIBRE BOARD	Ash Content	IS: 1060-1966 (RA-1992), Part 1, CL.11.	Upto 50%
		pH	IS: 1060-1966 (RA-1992), Part 1, CL.10.	1 to 14
		Moisture Content	IS: 1060-1966 (RA-1992), Part 1, CL.9.	Upto 20%
		Water Spray Test	IS: 10212 - 1985	Visual
		Cobb Test	IS : 1060-1966 (RA-1992), Part 1, CL.13.2.2. IS: 4006 - 1985, Part 2, CL.6	Upto 600 gsm
		Grammage	IS: 1060-1966 (RA-1992), Part 1, CL.6.2.1.	Upto 600 gsm
		Grammage	IS: 7063 - 1976 Part 4. CL.2.1.	Upto 600 gsm
2.	PLASTIC ALLIED MATERIALS	Migration Test (Overall)	IS 9845 - 1998	Upto 100 mg/ltr.
3.	TIN CONTAINERS	Tin Coating	IS: 1327 - 1988 (RA - 2006), CL.3. Weight Loss Method	Upto 25 gsm
		Lacquer Curing Test	IS 9992 - 1981, CL.7.1.1. Appendix-A	Visual
		Salt Spray Test	ASTM B 117-2009	Visual
		Lacquer Continuity Test	IS 7182- 1973 (RA 2001)	Visual

*Rini Nayyan*  
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4.	PLASTIC FEEDING BOTTLE	Ageing Resistance	IS 14625 – 1999, CL.4.7.5	Visual
		Product Resistance of Printed Container	IS 2798 – 1998, CL.14 IS 10840 – 1994, CL.4.7.6.	Visual
		Permanency of Pigment	IS 14625 – 1999, CL.4.4.2. (Annex.-A)	Visual
		Capacity of Scale	IS 14625 – 1999, CL.4.4.2.	Upto 1 litre
5.	PLASTIC BOTTLE FOR MINERAL WATER	Potability Test	IS : 15410 – 2003, (RA 2009), CL.4.6.6	Visual
		Capacity	Method 5 of IS: 2798 – 1998 RA 2009	Upto 30 litre
		E.S.C.R	Method 1 of IS: 8747 – 1977, RA 2010	Visual
6.	BOPP TAPES	pH	IS : 13262 – 1992, CL.5.1.5.1 Annex A	1 to 14

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Last Amended on	-	Page	1 of 7

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1.	PAPER, PAPER BOARD AND CORRUGATED FIBRE BOARD BOXES	Thickness	IS: 1060 – 1966 (RA 1992), Part 1, CL.7	Upto 1.0 mm
		Bulk	IS: 1060 – 1966 (RA 1992), Part 1, CL.8	Upto 200 / gm
		Bursting Strength	IS: 1060 – 1966 (RA 1992), Part 1, CL.12.5	Upto 56 kg/cm <sup>2</sup>
		Bursting Factor	IS: 1060 – 1966 (RA 1992), Part 1, CL.12.5.4	N.A.
		Burst Index	IS: 1397 (RA 1995) CL.5.5 IS: 1060 (RA 1992) Part 1, CL.12.5	Upto 50 k <sub>pam</sub> <sup>2</sup> /g
		Ring Crush Test	IS: 4006 – 1985, Part 1, CL.11	Upto 100 kgf
		Folding Endurance	IS: 1060 – 1966 (RA 1992) Part 1, CL.12.6	Upto 10000 No.
		Breaking Length	IS: 1060 – 1966 (RA 1992) Part 1, CL.12.4	Upto 7000 M
		Tensile Strength & Elongation	IS: 1060 – 1966 (RA 1992) Part 1, CL.12.3	Upto 5000 kg 0.01 to 1000%
		Tensile Index	IS: 1397 (RA 1995) CL.5.5 IS: 1060 – 1966 (RA 1992) Part 1, CL.12.4	Upto 50 Nm/g
		Tear Index	IS: 1397 (RA 1995) CL.5.5 IS: 1060 – 1966 (RA 1992) Part 1, CL.12.7	Upto 50 mNm <sup>2</sup> /g

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Edge Crush Test	IS: 7063 – 1976 (RA 1992) Part 2, CL.1.1	Upto 200 kgf
		Blocking Resistance	IS: 4006 – 1985, Part 1, CL.10	Visual
		Flat Crush Test	TAPPI T808-OM-01	Upto 200 Kgf
		Tear Strength	IS: 1060 – 1966, Part 1, CL.12.7	Upto 1600 gmf
		Tear Factor	IS: 1060 – 1966, Part 1, CL.12.7.5	N.A
		Smoothness	IS: 9894 – 1998, CL. 3.0	Upto 3000 ml/min
		Porosity	IS: 11080, RA 2008	Upto 3000 ml
		Abrasion Loss (Scuff Proofness)	IS: 4006 – 1985, Part 1, CL.9	Upto 1000 Resolutions
		Wax Pick Up Number	IS: 1060 – 1969, Part 3, CL.8	2A to 26A
2.	<b>CORRUGATED FIBRE BOARD BOXES AND WOODEN</b>	No. of Ply	IS: 2771-1990	Upto 1000 mm
		Internal External Dimension	IS: 2771-1990, Part 1, RA 2002	Upto 1000 mm
		Combined Internal Dimension	IS: 2771 – 1990, Part 1	Upto 1000 mm
		Style of Box	IS: 6481-1971	Visual
		Type of Flute	IS: 2771 – 1990, Part 1,(RA 2002)	Visual
		Compression Strength	IS: 7028 – 1987, Part 6, CL. 6	Upto 5000 kgf
		Vibration Test	IS: 7028 – 1988 Part 2	Visual

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Inclines Impact Tester	IS: 7028 – 1987 Part 3	Visual
		Rolling Test	IS: 7028 – 1987 Part 5	Visual
		Drop Test	IS: 7028 – 1987 Part 4	Visual
		Stack Load Test	IS: 7028 – 1973 Part 1	Visual
3.	<b>PLASTIC &amp; ALLIED MATERIALS</b>	Thickness	IS: 2508 – 1984, Appendix –A2 (RA 2008) CL 4.2	Upto -1 mm
		Heat Seal Strength	ASTM F-88-06	Upto 100 kg
		Melt Flow Index	ASTM D 1238-04 C	Upto 100 gm / 10 min
		Modulus Of Elasticity	ASTM D 882-2002	Upto 5000 kgf/cm <sup>2</sup>
		Tensile Strength (Breaking Load)	IS: 2508 – 1984, RA 2008 Appendix - 4	Upto 5000 Kg
		Elongation at Break	IS: 2508 – 1984, RA 2008 Appendix - 4	Upto 1000 %
		Dart Impact Test	IS: 2508 – 1984 (RA 1991),CL.4.7	Upto 1000 gm
		Water Vapour Transmission Rate	ASTM E - 398 – 2003	Above 0.01 g/m <sup>2</sup> /24 hrs
		Gas (O <sub>2</sub> ) Permeability	ASTM D 1434 (Reapproved 2003)	0.3 to 10,000 ml/m <sup>2</sup> / 24 hours
		Co-Efficient of Friction (Static)	ASTM D 1894-2006	Upto 10 N
		Co-Efficient of Friction (Dynamic)	ASTM D 1894-2006	Upto 10 N

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		Water Vapour Transmission Rate	ASTM F 1249-2006	Above 0.01 g/m <sup>2</sup> /24 hrs
4.	<b>BLOW MOULDED PLASTICS CONTAINERS</b>	Thickness	IS: 2798 – 1998 (RA 2003), CL.4.5	1 – 25 mm
		Handle Strength	IS: 6312 – 1994 (RA 2010), CL.8.7	Visual
		Leak-Proofness Test (By Air Pressure)	IMDG - CODE 2001 Vol.1 (Part 6) CL. 6.1.5.4.	Upto 100 Kpa
		Hydrostatic Pressure Test	IS: 6312 - 1994 (RA 2010) CL. 8.6.1 & 2	Upto 100 Kpa
		Ink Adhesion of Printed Containers	IS: 10840 – 1994, CL. 4.7.5	Visual
		Brimful Capacity	IS: 6312 -1994, CL.6 (RA 2010)	Upto 50 ltr
		Closure Leakage Test (Keeping on Floor)	IS: 6312 – 1994, CL. 8.3 Annexure- D	Visual
		E.S.C.R.	IS: 8747 – 1977, CL.5 (Method I) IS: 6312-1994, CL. 8.9, Annx. K	Visual
		Closure Leakage Test (Keeping on Floor)	IS: 2798 – 1998, CL. 6.1, 6.2 & 6.3 IS: 7959 – 1987, CL. 10.1.1 (Annex A)	Visual
		Drop Test	IS: 6312 –1994, CL.8.4.1	Upto 1.8 mtr.

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5.	HDPE BAGS	Denier	IS: 6193 - 1971/ IS: 7703 Part 1: 1990, RA 2007	Upto 5000 dennier
		Breaking Load	IS: 1969 - 1985	Upto 2500 kg
		Mesh	IS: 1963 - 1981	Upto 300 mm
		Seam Strength	IS: 9030 - 1979, RA 2008	Upto 500 kg
		No. of Stitches of Seam	IS: 11652 - 2000, CL.6 Annexure - A	9 - 15/dm
		Dimension	IS: 11652 - 2000, CL.6 Annexure-A	Upto 3000 mm
6.	TIN CONTAINERS	Handle Pull Test	IS: 2471-1963	Upto 100 kg
		Dimension	IS: 9992 - 1991, CL.4.1 IS: 10325 - 2000, CL.4.3.1 IS: 10339 - 2000, CL.4.1.1	Upto 1000 mm
		Leakage Test (Air Pressure)	IS: 2471-1963, Method 4	Visual
		Hydraulic Pressure Test	IS: 2471-1963	Visual
7.	PLASTIC CAPS & CLOSURES	Compressibility For Cork Composition Sheet	IS: 4253 - 1980 (Part 1) (RA 1999)	Upto 1000 gmf
		Recovery of Cork For Composition Sheet	IS: 4253 - 1980 (part 1) (RA 1999)	Upto 100%
		Torque Test	ASTM D 3198 - 2002	Upto 10 Nm

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	BOPP TAPES	Adhesion Strength of Pressure Sensitive Adhesive Tape to Metal	IS: 8402 - 1987, CL. 5 (RA 1998)	Upto 500 Kg
		Adhesion Strength of Pressure Sensitive Tape to Self	IS: 8402 - 1987, CL. 13 (RA 1998)	Upto 500 Kg
		Anchorage of Adhesives in Pressure Sensitive Cellulose Tapes	IS: 8402 - 1987, CL. 7 (RA 1998)	Visual
		Determination of Stability of Pressure Sensitive Tapes	IS: 8402 - 1987, CL. 14 (RA 1998)	Visual
9.	PLASTIC FEEDING BOTTLE FOR MILK	Dimension	IS: 14625 - 1999, CL.4.5. Edition 1.2 (2003-07) (RA 2004)	Upto 25 mm
		Drop Test	IS: 14625 - 1999, Annex.C, CL.4.7.4. Edition 1.2 (2003-07)	Visual
10.	METAL DRUM	Leakage Test (Air Pressure)	IS: 1783 - 1993, Part 1, CL.9.1.	Visual
		Hydraulic Pressure Test	IS: 1783 -1993, Part 1, CL.9.3.	Visual
		Drop Test	IS: 1783 -1993, Part 1, CL.9.2.	Visual
		Seam Width	IS: 1783 - 1993, Part 1, CL.5	Upto 1000 mm
		Thickness	IS: 1783 - 1993, Part 1, CL.5	Upto 25 mm
		Dimension	IS: 1783 - 1993, Part 1, CL.5	Upto 1000 mm
	Diameter of Closure	IS: 1783 -1993, Part 1, CL.7.4	Upto 25 mm	

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11.	WOODEN PALLET / PLASTIC PALLET	Bending Test	IS: 6219 – 1989, CL.8.2	Upto 15 Tonnes
		Drop Test	IS: 6219 – 1989, CL.9.2	Visual
		Stacking Test	IS: 6219 – 1989, CL.8.1	Visual
12.	FLEXIBLE INTERMEDIATE BULK CONTAINERS (FIBC)	Top Lift Test	IMDG Code Volume 1, Part 6	Visual
		Tear Test	IMDG Code Volume 1, Part 6	Visual
		Stacking Test	IMDG Code Volume 1, Part 6 IS: 14738 (Part 4)	Visual
		Drop Test	IMDG Code Volume 1, Part 6	Visual
		Topple Test	IMDG Code Volume 1, Part 6	Visual
		Righting Test	IMDG Code Volume 1, Part 6	Visual
		Cyclic Test & Load to Failure	IS: 14738 (Part 3)-1999	Visual
		Compression Test/ Stacking Test	IS: 14738 (Part 4)-1999	Visual
	Dimension	IS: 11652-2000 Ch-6 (Annex. A)	Upto 3000 mm	

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में स्थित इसकी सुविधाओं के लिए

फोटोमेट्री परीक्षण

के क्षेत्र में किया गया।

प्रमाण-पत्र संख्या प-1221

जारी करने की तिथि 04/06/2011

वैधता की तिथि 03/06/2013

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

रिनी नारायण

रिनी नारायण  
संयोजक

अनिल रेलिया

अनिल रेलिया  
निदेशक

डा. टी. रामसामी

डा. टी. रामसामी  
अध्यक्ष



# NABL

**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	Indian Institute of Packaging, E-2, M.I.D.C. Area, Chakala, Andheri (East), Mumbai		
Accreditation Standard	ISO/IEC 17025: 2005		
Field	Photometry Testing	Issue Date	04.06.2011
Certificate Number	T-1221	Valid Until	03.06.2013
Last Amended on	-	Page	1 of 1

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1.	PAPER & PAPER BOARD	Gloss	IS: 1060-Part-I-1966 & ASTM D 2457-03	Upto 100 %
		Brightness	TAPPI – 452m-02	Upto 100 %
		Diffuse Opacity (Paper Backing)	TAPI-T-519 mm-02	Upto 100 %
2.	PLASTIC FILMS & LAMINATES	Gloss	ASTM D – 2457-03	Upto 100 %
		Haze	ASTM D – 1003	Upto 100 %

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*Rini Nazaryan*  
Convenor