



# NABL


**Department of Science & Technology, India**

## SCOPE OF ACCREDITATION

Laboratory	Hemshell Services, 503 ACME Industrial Park, W.E.Highway, Near Aarey Flyover, Goregaon (E), Mumbai		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	24.01.2013
Certificate Number	T-1713	Valid Until	23.01.2015
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.	PLASTICS - Barrier Materials (Flat Films & Finished Packages) Used In Packaging Applications	Water Vapor Transmission Rate (WVTR)	ASTM F-1249:2006 HS/WI/14	0.005 to 5700 g/m <sup>2</sup> /day 0.003 to 368 g/100 in <sup>2</sup> /day 0.000025 to 2.85 g/pkg/day
2.	PLASTICS - Barrier Materials (Flat Films) Used In Packaging Applications	Water Vapor Transmission Rate (WVTR)	ASTM E-398:2003 (2009)e 1	0.1 to 1000 g/m <sup>2</sup> /day 0.006 to 65 g/100 in <sup>2</sup> /day
3.	PLASTICS - Barrier Materials (Flat Films) Used In Packaging Applications	Oxygen Transmission Rate (OTR)	ASTM D-3985:2005 (2010)e 1 ASTM F 1927: 2007	0.005to 4500 cc/(m <sup>2</sup> -day), 0.0003to 308 cc/(100 in <sup>2</sup> -day)
4.	PLASTICS - Barrier Materials (Finished Packages) Used In Packaging Applications	Oxygen Transmission Rate (OTR)	ASTM F 1307: 2002 (2007)	0.00005 to 4.5 cc/(pkg-day)

-X-X-X-X-X-X-X-X-X-X-X-X-X-

  
\_\_\_\_\_  
Convenor