

ICS 793.020

P 00



PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF
CHINA

中华人民共和国城镇建设行业标准

CJ/T 234-2006

High density polyethylene geomembrane for landfills

垃圾填埋场用高密度聚乙烯土工膜

Issued on July 25, 2006

Implemented on December 01, 2006

Issued by Ministry of Construction of the People's Republic of China (MOC)

Foreword

The indicators specified in this Standard are referred to relevant International standard and refers partial ASTM test methods and GRI test methods.

Annex A, B, C, D, E, F and G of this Standard are informative.

This Standard is proposed by Research Institute of Standard Rating of MOC.

This Standard is under the jurisdiction of Shanghai Bureau for Environmental Health of City Standard Technique Unit of MOC.

Chief Draft units of this Standard: Wuhan Research & Design Institute of Environmental Health; Participate units of this standard: HUST (Huazhong University of Science and Technology), GSE Gasket Technical Co., Ltd, Shenzhen Zhonglan Co., Ltd. Easen International Inc and Beijing High-energy Gasket Engineering Co., Ltd.

Chief drafters of this Standard: Feng Qilin, Chen Zhulei, You Guanlin, Luo Yi, Ge Fang, Liu Zejun, Zhuang Ping, Liu Yong, Tan Xiaoming, Zhen Shengli, Liu Ting, Liu Yang, Kong Xiongjun and Sun Weimin.

This Standard is issued for the first time.

High Density Polyethylene Geomembrane for landfills

1. Scope

This standard provides classifications, requirements, test methods, test frequencies, symbols, labels, packaging, transportation, storage, etc for high density polyethylene geomembrane for landfills

This standard is applicable to the usage of high density polyethylene geomembrane with middle (high) density polyethylene resin as main feedstock and added with the addition agent in seepage-proofing, sealing, and other projects of landfills.

2. Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

- GB/T 1033 Test method of plastic density and relative density
- GB/T 1037 Test method of water vapor permeability of plastic film and sheet--Test cup
- GB/T 1040 Test method of tensile property
- GB/T 2918 Standard Environment for plastic test specimen conditioning and testing
- GB/T 5470 Test method of brittle temperature of plastic impact
- GB/T 6672 Determination of the thickness of plastic film and sheet--Mechanical measurement
- GB/T 6673 Determination of the length and width of plastic film and sheet
- GB/T 7141 Test method of hot air exposure of plastic
- GB/T 9352 Preparation of thermoplastic plastic compression specimen
- GB/T 11116 High density polyethylene resin
- GB/T 12027 Test methods of dimensional change rate of plastic film and sheet under heating
- GB/T 13021 Determination of carbon black content of polyethylene tubing & fitting
- GB/T 15182 Linear low density polyethylene resin
- GB/T 16422.3 Experimental method of light exposure of plastics laboratory Part 3: Fluorescent UV lamp
- GB/T 17391 Test method of thermostability of polyethylene tubing & fitting
- QB/T 1130 Test method of tearing property of plastic vertical angle

3 Terms and Definitions

3.1

Geomembrane

Geomembrane is a kind of waterproof barrier material with polymers as basic materials, e.g. polyethylene (PE) geomembrane, polrvinyl chloride (PVC) geomembrane, ethylene chloride (CPE) geomembrane, composite geomembrane, etc.

3.2

High density polyethylene geomembrane

It is a kind of geomembrane produced with middle (high) density polyethylene resin as raw material and with a density of 0.94g/cm³ or higher.

3.3

Smooth geomembrane

It is a kind of geomembrane of both sides smooth and neat.

3.4

Textured geomembrane

It is a kind of geomembrane produced by specific process of single or dual sides evenly rough.

3.5

Tensile strength

It refers to maximum tensile stress (kN/m) on per unit width of the specimen broken in tensile test.

3.6

Tensile break stress

Tensile stress in case of break in specimen testing

3.7

Tensile yield stress

The stress at tensile stress-strain yield point

3.8 **Offset yield stress**
The stress of strain curve deviating from linearity to specified strain percentage (offset)

3.9

Elongation at break

By the force of tension, a ratio of the increment between scales to initial scale distance, expressed by percentage

3.10

Tensile stress-strain curve

It is a curve drawn from corresponding values of stress & strain. Normally, it is shown by stress value as Y-axis and strain value as X-axis.

4 Classifications

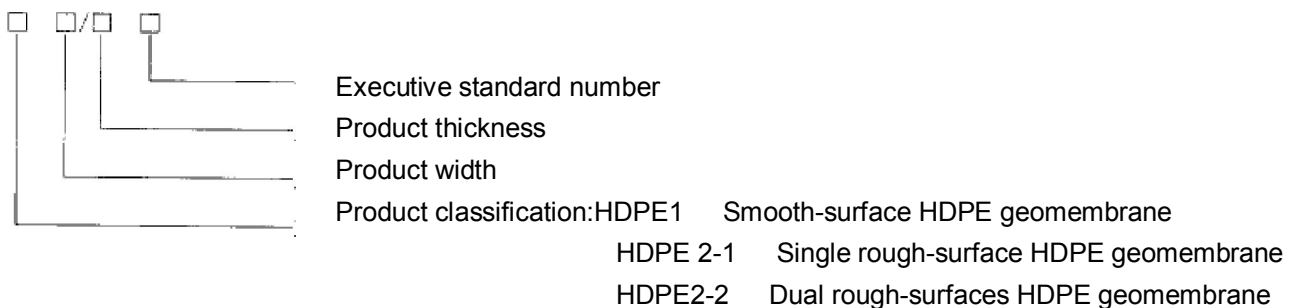
4.1 Classifications

4.1.1 Smooth-surface high density polyethylene geomembrane referred to as HDPE1

4.1.2 Rough-surface high density polyethylene geomembrane referred to as HDPE2. Thereinto, single rough-surface high density polyethylene geomembrane referred to as HDPE2-1; and dual rough-surfaces high density polyethylene geomembrane referred to as HDPE2-2

4.2 Model

Model implication is shown in following figure:



Example of model: smooth-surface HDPE geomembrane with width of 6,000mm and thickness of 1.5mm is referred to as HDPE16 000/1.5CJ/T 234-2006

5 Requirements

5.1 Specification, Dimension and Deviation

5.1.1. Unit length per volume of product should be not less than 50mm with a length deviation within $\pm 2\%$



北京文心雕语翻译有限公司
Beijing Lancarver Translation Inc.

完整版本请在线下单

或咨询：

TEL: 400-678-1309

QQ: 19315219

Email: info@lancarver.com

<http://www.lancarver.com>

线下付款方式：

1. 对公账户：

单位名称：北京文心雕语翻译有限公司

开户行：中国工商银行北京清河镇支行

账 号：0200 1486 0900 0006 131

2. 支付宝账户：info@lancarver.com

注：付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！



银联特约商户