

ICS 93.040  
CCS P 28

**CJ**

**INDUSTRY STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**CJ/T 297-2016**

Replacing CJ/T 297-2008

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**High Density Polyethylene Sheathing Compounds for Bridge  
Cable**

**(English Translation)**

**Issued on: September 6, 2016**

**Implemented on: March 1, 2017**

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**Issued by: Ministry of Housing and Urban-Rural Development of the  
People's Republic of China**

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### Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is CJ/T 297-2008 "bridge cables with high density polyethylene jacket material" revision, compared with CJ/T 297-2008 the main technical content changes as follows.

- Modify the classification (see 3.1);
- Removed use (see 2008 version 3.3);
- Modify the color (see 4.1);
- Modify the density index (see 4.3);
- Modify the name of the project melt flow rate (see 4.3);
- Modify the impact strength of the project name and indicators (see 4.3);
- Modify the hardness of the project name (see 4.3);
- Modify the impact of embrittlement temperature project name (see 4.3);
- Remove the softening temperature item (see 2008 version 4.3);
- Remove the heat aging project (see 2008 version 4.3);
- Deleted ozone-resistant aging project (see 2008 version 4.3);
- Increased.200 °C oxidation induction period project (see 4.3);
- Modified UV aging aging resistance (see 4.3);
- Modify the carbon black dispersion name and index (see 4.3).

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Road and Bridge Standardization Technical Committee.

This standard was drafted. Shanghai Institute of polymer functional materials, the National Chemical Building Materials Testing Center (Materials Testing Department), Shanghai Pu Jiang Cable Co., Ltd., Chongqing million Bridge Transportation Technology Development Co., Ltd., Liuzhou Ouwei Mu Machinery Co., Ltd., Kaiyuan City, Fujian Province Government Gardens Limited.

## 1 Scope

This standard specifies the product classification and specifications, requirements, test methods, inspection rules and standard of high-density polyethylene sheathing material for bridge cables Log, packaging, transportation and storage.

This standard applies to high-density polyethylene resin as the main raw material, adding modifiers, antioxidants, light stabilizers, carbon black or pigments and other help Agent, after mixing, plasticizing, granulation obtained with high density polyethylene cable sheathing material, mainly used in cable sheathing and spiral cable or casing, other cable structure hot extrusion sheath, casing can also be used.

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1033.1-2008 Plastics - Determination of density of non-foamed plastics - Part 1. Immersion method, liquid pycnometer method and titration method GB/T 1040.2-2006 Plastics - Determination of tensile properties - Part 2. Test conditions for molding and extrusion of plastics GB/T 1040.3-2006 Plastics - Determination of tensile properties - Part 3. Test conditions for films and sheets GB/T 1043.1-2008 Plastics - Determination of Charpy impact properties - Part 1. Non-instrumented impact test Plastics - Environmental stress cracking test method for polyethylene GB/T 2411-2008 Plastics and hard rubbers Determination of indentation hardness (Shore hardness) using a durometer GB/T 3682-2000 Thermoplast melt mass flow rate and melt volume flow rate determination Plastics - Determination of the impact temperature brittleness GB/T 5470-2008 Textiles Tests for color fastness Color fastness to artificial light. Xenon arc Plastics - Determination of bending properties GB/T 9341-2008 Compression molding of test specimens of plastic thermoplastics materials GB/T 9352-2008 GB/T 13021 Polyethylene pipe and fittings carbon black content (thermal weight loss method) GB/T 15065-2009 black polyethylene plastic wire and cable GB/T 16422.3-2014 plastic laboratory exposure test methods - Part 3. Fluorescent UV lamp Test method for thermal stability of polyethylene pipe and fittings

GB/T 18251 Polyolefin pipes, fittings and mixed materials Determination of pigment or carbon black dispersion RAL K7 CLASSIC Raul Standard Color Card (Germany)

### **3.1 Classification**

Divided by color into H and C type. H type is black, C type is color.

### **3.2 Specifications**

Should be  $\phi 4\text{mm} \times 3\text{mm}$  cylindrical particles or particles with a considerable size.