**Polyethylene Resin**

**TECHNICAL DATA SHEET**

Chemical Formula : (C2H4)n

Cas No. : 9002-88-4

www.chemdo.com

info@chemdo.com

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**·**  Description

HE3488-LS-W is a black bimodal high-density polyethylene compound produced by the advanced Nordic Double Star Borstar® patented technology, with a pressure rating of 10MPa (PE100). Contains well dispersed carbon black for pressure pipes providing excellent UV resistance and specially developed formulation for water pipe applications. HE3488-LS-W fully complies with Chinese national standard GB/T 13663:2018.

**·** Applications

HE3488-LS-W is well designed for water supply pressure piping system. It has good resistance to fast and slow crack growth.

**·** Packaging

In 25kg kraft bag.

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| --- | --- | --- | --- |
| **No.** | **ITEMS DESCRIBE** | **INDEX** | **TEST METHOD** |
| 01 | Density (mixture)  | 960kg/m3 | ISO 1183 |
| 02 | MFR (190°C/5kg)  |  0.27g/10min | ISO 1133 |
| 03 | Tensile Modulus (1mm/min)  | 1100MPa  | ISO 527 |
| 04 | Elongation at break (50mm/min)  | >600% | ISO 527-2 |
| 05 | Tensile Yield Strength (50mm/min)  | 25MPa | ISO 527-2 |
| 06 | Carbon black content  | ≥2% | ISO 6964 |
| 07 | Carbon black dispersibility  | ≤3 | ISO 18553 |
| 08 | Oxidation induction time (210°C)  | ≥20mins  | ISO 11357-6 |
| 09 | Resistance to rapid crack growth, S4 test+  | >10bar | ISO 13477 |
| 10 | Resistance to slow crack growth (9.2bar, 80oC)  | >500hrs  | ISO 13479 |

Pre-dried

Due to the inherent moisture absorption of carbon black, black compound PE is sensitive to moisture. Long storage time or harsh storage environment will increase the moisture content. Under general conditions and applications, we recommend preheating for a minimum of 1 hour and a maximum temperature of 90 °C.

Storage

HE3488-LS-W should be stored in a dry environment below 50°C and protected from UV rays. And prevent the dry environment of ultraviolet radiation. Inappropriate storage in excess can trigger degradation leading to off-odor and discoloration,which can adversely affect the physical properties of the product. More information on how to store the product should be included in the safety information sheet. When stored properly, the shelf life is 2 years from the date of manufacture.

Recycle and Re-use

This product is suitable for recycling using modern crushing and cleaning methods. The waste generated in the factory should be kept clean for direct recycling.