

# BorPEX™ HE1878

High Density (HMW) Polyethylene

Borealis AG

## Message:

BorPEX HE1878 is a high molecular weight, high density polyethylene specially designed for production of crosslinked pipes (PE-X).

BorPEX HE1878 is intended to fulfill following standards and regulations, in case of appropriate industrial manufacturing standard procedures applied and a continuous quality system is implemented.

DIN 16892

DIN 16893

EN ISO 15875

ASTM F 876

BorPEX HE1878 is a free flowing powder for the PE-Xa, peroxide crosslinking process. The material is only stabilized for transporting and storage. Crosslinking agent (e.g. peroxide) and stabilisers have to be added by the pipe manufacturer. Good crosslink response and well-balanced powder size distribution enable effective soaking and a stable pipe production.

| General Information |                         |
|---------------------|-------------------------|
| Additive            | Unspecified Stabilizer  |
| Features            | Clean/High Purity       |
|                     | Crosslinkable           |
|                     | Good Processability     |
|                     | Good Stability          |
|                     | High Molecular Weight   |
| Uses                | Industrial Applications |
|                     | Piping                  |
|                     | Plumbing Parts          |
| Agency Ratings      | ASTM F 876              |
|                     | DIN 16892               |
|                     | DIN 16893               |
|                     | ISO 15875               |
| Forms               | Powder                  |
| Processing Method   | Extrusion               |
|                     | Pipe Extrusion          |

| Physical                                  | Nominal Value | Unit              | Test Method  |
|---|---------------|-------------------|--------------|
| Density <sup>1</sup>                      | 0.955         | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.0           | g/10 min          | ISO 1133     |
| Mechanical                                | Nominal Value | Unit              | Test Method  |
| Tensile Stress (Yield)                    | 22.0          | MPa               | ISO 527-2/50 |
| Tensile Strain (Break)                    | > 600         | %                 | ISO 527-2    |

## NOTE

1. Base resin

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### Recommended distributors for this material

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