

## POLYETHYLENE PE 4122N (22401)

Product obtained by gas-phase copolymerization of ethylene and butene-1 in presence of complex metalorganic catalysts.

Stabilization recipe: antacid, antioxydant, heat stabilizer, slip additive, antiblocking additive, processing additive, dispersant.

Properties: improved processability and quality of film surfaces

Application: rigid tubular film, laminating, compounding

Polyethylene type:

Chemical name:

Empirical formula:

Technical requirements:

**Linear low density polyethylene (LLDPE)**

**Ethylene copolymer with butene-1**

$[(-CH_2)_3-CH(C_2H_5)]_{n+m}$

**TU 2211-145-05766801-2008**

PROPERTY	Value	TEST METHOD
1. Density (base polymer), g/cm <sup>3</sup> , in the range	0.920 – 0.924	ASTM D 1505
2. Melt flow rate (at 190°C and 2,16 kg), g/10 min, in the range	0.8 – 1.3	ASTM D1238/L
3. Melt flow rate ratio (MFR <sub>21,6 kg</sub> /MFR <sub>2,16 kg</sub> ), max	30	ASTM D 1238

### Additional reference ratings

PROPERTY	VALUE	Test method
1. Anti-puncture resistance, g, min	80	ASTM D 1709
2. Modulus of elasticity, 2 % s, MPa, min: MD* TD*	150 180	ASTM D 882
3. Tensile strength, MPa, min MD TD	45 30	ASTM D 882
4. Tensile elongation, %, min.: MD TD	650 700	ASTM D 882
5. Elmendorf tear strength, min.: MD TD	120 400	ASTM D 1922
6. Gel content, pcs./m <sup>2</sup> , max., sizing: > 1 mm (0.5 – 1.0) mm (0.2 – 0.5) mm > 0.2 mm (total)	0 5 245 250	According to clause 6 Attachment A TU 2211-145-05766801

\* MD – longitudinal anisotropy

TD – transverse anisotropy

- Supply form:** Pellets
- Packaging:** Product is packed into polyethylene bags (one bag net weight  $25.00 \pm \pm 0.25$  kg) and bundled on flat pallets with shrink film. Gross weight of a bundle is max 2 t. PE may be packed into soft containers (big bags) sized for 400-1000 kg. Upon agreement with Customer PE pellets are bulk loaded into railway cars, tipper trucks or loaded in bags to railway cars.
- Transportation:** By all transport means.
- Storage:** Polyethylene shall be stored in enclosed dry space preventing from direct sun rays, on shelves or pallets at least 5 cm from the floor, and at least 1 m from heaters, at temperature max 30°C and relative humidity max 80%. Prior to processing, bags with polymer shall be kept for at least 12 hrs in production area.

Information contained herein is provided to the best of our knowledge and is considered true on the revision date. This specification does not release customer from the responsibility to check the product for suitability for the intended use. Manufacturer bears no liability for any loss and damage which may occur due to use of this information.