

**POLYETHYLENE PE 5122Q**

Product obtained by gas phase polymerization of ethylene in presence of complex metalorganic catalysts.
Stabilization recipe: antacid, antioxidant, thermostabilizer, dispersing agent.
Application: high strength tubular film.

PE type: Linear low density polyethylene (LLDPE)
Chemical name: Ethylene, butene-1 and hexene-1 copolymer
Empirical formula: (-CH₂-CH₂-)_n
Design specification: TU 2211-145-05766801-2008

PROPERTY	VALUE	TEST METHOD
1. Density (of base resin), g/cm ³ , in the range	0.920 – 0.924	ASTM D 1505
2. Melt Flow Rate (at 2.16 kg/190°C), g/10 min, in the range:	2.5 – 3.5	ASTM D1238/L
3. MFR _{21.6 kg} /MFR _{2.16 kg} ratio, max.	30	ASTM D 1238

Additional Reference Properties

Property	Value	Test Method
1. Dart impact strength, g, min.	100	ASTM D 1709
2. Tensile Modulus, 2 % sec., MPa, min.: MD* TD*	115 120	ASTM D 882
3. Tensile strength, MPa, min.: MD TD	53 30	ASTM D 882
4. Elongation at break, %, min.: MD TD	500 900	ASTM D 882
5. Elmendorf tear strength, min.: MD TD	190 450	ASTM D 1922
6. Gel content, pcs./m ² , max, sizing: > 1 mm (0.5 – 1.0) mm (0.2 – 0.5) mm > 0.2 mm (totally)	0 5 245 250	p.6 Attachment A TU 2211-145- 05766801

*MD – in the direction of anisotropy
TD – normal to the direction of anisotropy

Supply form: Pellets

- Packing: Product is packed in polyethylene bags (one bag net weight 25.00 ± 0.25 kg) and stacked on flat pallets with shrink film. Maximum gross weight of a bundle is 2 tons.
PE may be packed into soft containers (big bags) sized for 400 – 1000 kg.
Upon agreement with a customer PE pellets may be bulk loaded straight into wagons for pelletized polymer materials and into polymer trucks, as well as may be delivered in bags by railcars.
- Transportation: By all modes of transport.
- Storage: Polyethylene shall be stored in enclosed dry space preventing from direct sunlight on shelves or pallets at least 5 cm from the floor and at least 1 m from heaters, at temperature max 30°C, relative humidity max 80 %.
Prior to processing bags with polymer shall be kept in production area for at least 12 hrs.

Information contained herein is provided to the best of our knowledge and is considered true on the revision date. This specification does not release a customer from obligation to check the product as to suitability thereof for the intended application. A producer shall not be liable for any loss and damage that might occur due to use of this information.