



Producer: Nizhnekamskneftekhim (NKNH) / Russia

## 4118N

### Description:

Product obtained by gas phase polymerization of ethylene in presence of complex metalorganic catalysts.

### Chemical name:

Ethylene and butene-1 copolymer

### Desing specification :

TU 2211-145-05766801-2008

### Stabilization recipe :

Antacid, antioxsidant, thermostabilizer, lubricant, antiblocking agent, processing aid, dispersing agent.

### Properties :

Improved processability and films surface quality.

### Application:

General purpose blown film, liners

PROPERTY	VALUE	TEST METHOD
Density ( of base resin ), g/cm <sup>3</sup> , in the range	0.916 - 0.920	ASTM D 1505
Melt Flow Rate (at 2.16 kg/190°C), g/10 min, in the range	0.8 - 1.2	ASTM D 1238/L
MFR <sub>21.6 kg</sub> / MFR <sub>21.16 kg</sub> raito,max.	30	ASTM D 1238
Dart impact strength, g, min.	100	ASTM D 1709
Tensile Modulus, 2 % sec., Mpa, min MD	130	ASTM D 882
Tensile Modulus, 2 % sec., Mpa, min TD	140	ASTM D 882
Tensile strenght, Mpa, min MD	42	ASTM D 882
Tensile strenght, Mpa, min TD	33	ASTM D 882
Elongation at break, %, min MD	670	ASTM D 882
Elongation at break, %, min TD	770	ASTM D 882
Elmendorf tear strength, min MD	150	ASTM D 1922
Elmendorf tear strength, min TD	380	ASTM D 1922
Gel content, pcs./m <sup>2</sup> , max, sizing:	5	p.6 Attachment A TU 2211-145 05766801
> 1mm (0.5 - 1.0) mm	245	
(0.2 - 0.5) mm > 0.2 mm (totally)	250	

### Supply Form :

Pallets

### 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

### 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 0C, relative humidity max 80 %. Prior to processing.