

## NIZHNEKAMSKNEFTEKHIM PE 4117P (18402) Linear Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

## Material Notes:

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NIZHNEKAMSKNEFTEKHIM-PE-4117P-18402-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_NIZHNEKAMSKNEFTEKHIM-PE-4117P-18402-Linear-Low-Density-Polyethylene.php)

| Physical Properties | Metric                               | English                              | Comments                                       |
|---------------------|--------------------------------------|--------------------------------------|------------------------------------------------|
| Density             | 0.916 - 0.920 g/cc                   | 0.0331 - 0.0332 lb/in <sup>3</sup>   | Base Resin; ASTM D1505                         |
| Melt Flow           | 1.8 - 2.2 g/10 min                   | 1.8 - 2.2 g/10 min                   | ASTM D1283/L                                   |
|                     | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F |                                                |
|                     | 54 - 66 g/10 min                     | 54 - 66 g/10 min                     | Flow@21.6kg/Flow@2.16kg ratio < 30; ASTM D1283 |
|                     | @Load 21.6 kg,<br>Temperature 190 °C | @Load 47.6 lb,<br>Temperature 374 °F |                                                |

| Mechanical Properties              | Metric           | English      | Comments              |
|------------------------------------|------------------|--------------|-----------------------|
| Film Tensile Strength at Yield, MD | >= 51.0 MPa      | >= 7400 psi  | ASTM D882             |
| Film Tensile Strength at Yield, TD | >= 24.0 MPa      | >= 3480 psi  | ASTM D882             |
| Film Elongation at Break, MD       | >= 500 %         | >= 500 %     | ASTM D882             |
| Film Elongation at Break, TD       | >= 800 %         | >= 800 %     | ASTM D882             |
| Tensile Modulus                    | >= 0.130 GPa     | >= 18.9 ksi  | 2% sec, MD; ASTM D882 |
|                                    | >= 0.140 GPa     | >= 20.3 ksi  | 2% sec, TD; ASTM D882 |
| Elmendorf Tear Strength, MD        | >= 4.33 g/micron | >= 110 g/mil | ASTM D1922            |
| Elmendorf Tear Strength, TD        | >= 14.6 g/micron | >= 370 g/mil | ASTM 1922             |
| Dart Drop Test                     | >= 80.0 g        | >= 0.176 lb  | ASTM D1709            |

| Descriptive Properties             | Value | Comments          |
|------------------------------------|-------|-------------------|
| Gel Content (pcs./m <sup>2</sup> ) | 0     | > 1mm             |
|                                    | 245   | (0.2-0.5)mm       |
|                                    | 250   | > 0.2mm (totally) |
|                                    | 5     | (0.5-1.0)mm       |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

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