

NIZHNEKAMSKNEFTEKHIM PE 4115N (16401) 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-4115N-16401-Linear-Low-Density-Polyethylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|--|
| Density | 0.914 - 0.918 g/cc | 0.0330 - 0.0332 lb/in ³ | Base Resin; ASTM D1505 |
| Melt Flow | 0.80 - 1.2 g/10 min | 0.80 - 1.2 g/10 min | ASTM D1283/L |
| | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F | |
| | 24 - 36 g/10 min | 24 - 36 g/10 min | Flow@21.6kg/Flow@2.16kg ratio < 30; ASTM D1283 |
| | @Load 21.6 kg, Temperature 190 °C | @Load 47.6 lb, Temperature 374 °F | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|------------------|--------------|---------------|
| Film Tensile Strength at Yield, MD | >= 40.0 MPa | >= 5800 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | >= 32.0 MPa | >= 4640 psi | ASTM D882 |
| Film Elongation at Break, MD | >= 700 % | >= 700 % | ASTM D882 |
| Film Elongation at Break, TD | >= 800 % | >= 800 % | ASTM D882 |
| Tensile Modulus | >= 0.120 GPa | >= 17.4 ksi | MD; ASTM D882 |
| | >= 0.130 GPa | >= 18.9 ksi | TD; ASTM D882 |
| Elmendorf Tear Strength, MD | >= 6.30 g/micron | >= 160 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | >= 15.4 g/micron | >= 390 g/mil | ASTM D1922 |
| Dart Drop Test | >= 110 g | >= 0.243 lb | ASTM D1709 |

| Descriptive Properties | Value | Comments |
|------------------------------------|-------|-------------------|
| Gel Content (pcs./m ²) | 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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