

NOVA Chemicals Novapol® TF-Y822-CP Hexene LLDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

Material Notes:

Film Properties. Features: Good stiffness and machinability, exceptional toughness, suitable for narrow die gaps. Applications: Heavy duty sacks, high strength packaging. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-TF-Y822-CP-Hexene-LLDPE-Film-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Density | 0.921 g/cc | 0.0333 lb/in ³ | ASTM D792 |
| Thickness | 38.1 microns | 1.50 mil | |
| Melt Flow | 0.80 g/10 min @Load 2.16 kg, Temperature 190 °C | 0.80 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|---------------|-----------|--------------------|
| Film Tensile Strength at Yield, MD | 10.0 MPa | 1450 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 10.0 MPa | 1450 psi | ASTM D882 |
| Film Elongation at Break, MD | 650 % | 650 % | ASTM D882 |
| Film Elongation at Break, TD | 850 % | 850 % | ASTM D882 |
| Secant Modulus, MD | 0.180 GPa | 26.1 ksi | ASTM D882 |
| Secant Modulus, TD | 0.200 GPa | 29.0 ksi | ASTM D882 |
| Coefficient of Friction | >= 0.50 | >= 0.50 | ASTM D1894 |
| Elmendorf Tear Strength, MD | 13.0 g/micron | 330 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | 22.8 g/micron | 579 g/mil | ASTM D1922 |
| Dart Drop | 6.30 g/micron | 160 g/mil | F 50; ASTM D1709/A |
| Film Tensile Strength at Break, MD | 32.0 MPa | 4640 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 28.0 MPa | 4060 psi | ASTM D882 |

| Optical Properties | Metric | English | Comments |
|--------------------|---------------------------------|-----------------------------------|------------|
| Haze | 10 % @Thickness 0.0250 mm | 10 % @Thickness 0.000984 in | ASTM D1003 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

90% TRAN, ASTM D1894

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
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|------------------|--------------|--------------|--|
| Melt Temperature | 195 - 220 °C | 383 - 428 °F | |
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