# NOVAPOL® TF-Y534-IP

Linear Medium Density Polyethylene

NOVA Chemicals

## Message:

NOVAPOL® TF-Y534-IP is a Linear Medium Density Polyethylene material. It is available in North America for film extrusion.
Important attributes of NOVAPOL® TF-Y534-IP are:
Antiblock
Clarity
Good Stiffness
Good Toughness
Hexene Comonomer
Typical applications include:
Film
Food Contact Applications
Industrial Applications
Packaging
Wrap

| General Information | |
|---|---|
| Additive | Antiblock (900 ppm)<br>Processing Aid<br>Processing Stabilizer<br>Slip (400 ppm) |
| Features | Antiblocking<br>Good Stiffness<br>Good Toughness<br>Hexene Comonomer<br>High Clarity<br>High Strength<br>Puncture Resistant<br>Slip |
| Uses | Film<br>Industrial Applications<br>Packaging<br>Shrink Wrap |
| Agency Ratings | FDA 21 CFR 177.1520(c) 3.2a |
| Forms | Pellets |
| Processing Method | Film Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Specific Gravity | 0.934 | g/cm³ | ASTM D792 |

| | | | |
|---|---|---|---|
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.80 | g/10 min | ASTM D1238 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 25 | µm | |
| Secant Modulus | | | ASTM D882 |
| 1% Secant, MD : 25 µm, Blown Film | 370 | MPa | |
| 1% Secant, TD : 25 µm, Blown Film | 440 | MPa | |
| Tensile Strength | | | ASTM D882 |
| MD : Yield,25 µm, Blown Film | 16.0 | MPa | |
| TD : Yield,25 µm, Blown Film | 18.0 | MPa | |
| MD : Break, 25 µm,Blown Film | 46.0 | MPa | |
| TD : Break, 25 µm,Blown Film | 32.0 | MPa | |
| Tensile Elongation | | | ASTM D882 |
| MD : Break, 25 µm,Blown Film | 580 | % | |
| TD : Break, 25 µm,Blown Film | 780 | % | |
| Dart Drop Impact (25 µm, Blown Film) | 80 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD : 25 µm, Blown Film | 80 | g | |
| TD : 25 µm, Blown Film | 570 | g | |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Gloss (45°, 25.0 µm, Blown Film) | 63 | | ASTM D2457 |
| Haze (25.0 µm, Blown Film) | 9.0 | % | ASTM D1003 |
| **Additional Information** | **Nominal Value** | **Unit** | **Test Method** |
| Low Friction Puncture - Blown Film (25.0 µm) | 270 | J/cm | Internal Method |



## Recommended distributors for this material

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