# Trithene® TS 7006

Low Density Polyethylene

Petroquimica Triunfo

## Message:

Trithene®TS 7006 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion or co-extrusion.
Trithene®The main features of TS 7006 are:
high molecular weight
accessible food
beautiful
Heat resistance
Typical application areas include:
packing
Movie
food contact applications

| General Information | |
|---|---|
| Features | Low friction coefficient<br>High molecular weight<br>Optical<br>Thermal stability, good<br>Compliance of Food Exposure |
| Uses | Packaging<br>Films<br>Food packaging |
| Agency Ratings | ANVISA n°105/99<br>ASTM D 1248, I, Class A, Cat. 4<br>FDA 21 CFR 177.1520(c) 2.1 |
| Forms | Particle |
| Processing Method | Film extrusion<br>Co-extrusion molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.925 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.60 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength | | | ASTM D638 |
| Yield, molding | 12.0 | MPa | ASTM D638 |
| Fracture, molding | 16.0 | MPa | ASTM D638 |
| Tensile Elongation (Break, Compression Molded) | 580 | % | ASTM D638 |

| | | | |
|---|---|---|---|
| Coefficient of Friction (vs. Itself - Dynamic, Blown Film) | 0.15 | | ASTM D1894 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| secant modulus | | | ASTM D882 |
| 5% secant, MD: 50 µm, blown film | 117 | MPa | ASTM D882 |
| 5% secant, TD: 50 µm, blown film | 125 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Broken, 50 µm, blown film | 26.0 | MPa | ASTM D882 |
| TD: Broken, 50 µm, blown film | 23.0 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Broken, 50 µm, blown film | 350 | % | ASTM D882 |
| TD: Broken, 50 µm, blown film | 700 | % | ASTM D882 |
| Dart Drop Impact (50 µm, Blown Film) | 160 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD: 50 µm, blown film | 370 | g | ASTM D1922 |
| TD: 50 µm, blown film | 290 | g | ASTM D1922 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Vicat Softening Temperature | 97.0 | °C | ASTM D1525 |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Gloss (60°, 50.0 µm, Blown Film) | 85 | | ASTM D2457 |
| Haze (50.0 µm, Blown Film) | 9.0 | % | ASTM D1003 |

**Additional Information**

Film properties taken from 50 µm blown film produced on a 50 mm extruder, L/D=25, die gap=1.0 mm, BUR=2.3:1Melt Mass-Flow Rate, ASTM D1238, 190°C/2.16 kg: 0.50 to 0.70 g/10 minDensity, ASTM D1505: 0.923 to 0.926 g/cm³

| **Extrusion** | **Nominal Value** | **Unit** |
|---|---|---|
| Cylinder Zone 1 Temp. | 150 - 160 | °C |
| Cylinder Zone 2 Temp. | 155 - 165 | °C |
| Cylinder Zone 3 Temp. | 165 - 175 | °C |
| Adapter Temperature | 175 - 185 | °C |

**Extrusion instructions**

Recommended Blow Up Ratio: 2-3:1



## Recommended distributors for this material

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