# Trithene® TS 8064

Low Density Polyethylene

Petroquimica Triunfo

## Message:

Trithene®TS 8064 is a low density polyethylene material. This product is available in Latin America and is processed by film extrusion.
Trithene®The main features of TS 8064 are:
Good processability
accessible food
Typical application areas include:
bag/lining
packing
Movie
food contact applications

| General Information | | | |
|---|---|---|---|
| Features | Workability, good<br>Compliance of Food Exposure<br>Medium molecular weight | | |
| Uses | Packaging<br>Films<br>Bags | | |
| Agency Ratings | ANVISA n°105/99<br>ASTM D 1248, I, Class A, Cat. 3<br>FDA 21 CFR 177.1520(c) 2.1 | | |
| Forms | Particle | | |
| Processing Method | Film extrusion | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.923 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.2 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength | | | ASTM D638 |
| Yield, molding | 11.0 | MPa | ASTM D638 |
| Fracture, molding | 12.0 | MPa | ASTM D638 |
| Tensile Elongation (Break, Compression Molded) | 550 | % | ASTM D638 |
| Coefficient of Friction (vs. Itself - Dynamic, Blown Film) | 0.12 | | ASTM D1894 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| secant modulus | | | ASTM D882 |
| 5% secant, MD: 50 µm, blown film | 97.0 | MPa | ASTM D882 |

| | | | |
|---|---|---|---|
| 5% secant, TD: 50 µm, blown film | 105 | MPa | ASTM D882 |
| Tensile Strength | | | ASTM D882 |
| MD: Broken, 50 µm, blown film | 20.0 | MPa | ASTM D882 |
| TD: Broken, 50 µm, blown film | 18.0 | MPa | ASTM D882 |
| Tensile Elongation | | | ASTM D882 |
| MD: Broken, 50 µm, blown film | 370 | % | ASTM D882 |
| TD: Broken, 50 µm, blown film | 670 | % | ASTM D882 |
| Dart Drop Impact (50 µm, Blown Film) | 130 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD: 50 µm, blown film | 420 | g | ASTM D1922 |
| TD: 50 µm, blown film | 270 | g | ASTM D1922 |

| Thermal | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Vicat Softening Temperature | 94.0 | °C | ASTM D1525 |

| Optical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Gloss (60°, 50.0 µm, Blown Film) | 90 | | 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: 1.8 to 2.6 g/10 minDensity, ASTM D1505: 0.920 to 0.926 g/cm$^3$ |

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 150 - 165 | °C |
| Cylinder Zone 2 Temp. | 160 - 175 | °C |
| Cylinder Zone 3 Temp. | 165 - 180 | °C |
| Adapter Temperature | 170 - 180 | °C |

| Extrusion instructions |
|---|
| Recommended Blow Up Ratio: 2-3:1 |



## Recommended distributors for this material

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