

Product Data Sheet

PT. Lotte Chemical Titan Nusantara. (Formerly known as PT TITAN Petrokimia Nusantara)
 Head Office : Mangkuluhur City Tower One, 32nd Floor, Jl. Jendral Gatot Subroto Kav. 1-3, Karet Semanggi, Setiabudi, Jakarta Selatan – 12930, Indonesia Phone: +62 21 27883355 Fax: +62 21 27883366/99
 Site Location : Jl. Raya Merak Km.116 Cilegon 42436, Banten Indonesia Phone +62 254 571333 Fax : +62 254 571290
 Email: tsc@lottechem.co.id Website : www.lottechem.co.id

Titanvene™ LL0209SC

General Linear Low Density Film Applications

Titanvene™ LL0209SC is a linear low density polyethylene for high clarity film application. Titanvene™ LL0209SC is characterized by excellent transparency, low gel content, good process ability, and good mechanical properties with low blocking force and high slip.

Applications

Titanvene™ LL0209SC is typically used for :

- Industrial Packaging
- Food Packaging
- Transparent Film
- Shopping Bags
- Rice Bag
- Garment Sack

Recommended Processing Conditions ⁽¹⁾

Titanvene™ LL0209SC can be easily processed on normal polyethylene blow film machines at temperatures in the range of 170°C to 200°C.

Food Contact Compliance

Titanvene™ LL0209SC can be used in food contact applications. Please contact your nearest PT. Lotte Chemical TITAN Nusantara representative for more detail of food contact compliance statements for the specific grade.

| General Properties | Value ⁽²⁾ | Unit | Test Method |
|--------------------------------|----------------------|-------------------|----------------------|
| Melt Flow Rate (190°C/2.16 kg) | 1.0 | g/10 min | ISO 1133 Condition 4 |
| Nominal Density | 0.920 | g/cm ³ | ISO 1183 Method D |
| Vicat Softening Point | 103 | °C | ISO 306 |
| Melting Point | 122 | °C | ISO 3146 Method C |

| Mechanical Properties ⁽³⁾ | Value ^{(2) (4)} | Unit | Test Method |
|--------------------------------------|--------------------------|------|---------------------|
| Tensile Stress at Yield | MD 11 / TD 11 | MPa | ISO 1184(E) Speed I |
| Elongation at Break | MD 750 / TD 800 | % | ISO 1184(E) Speed I |
| Dart Impact Strength | 130 | gr | ISO 7765-1 Method A |

| Other Properties | Value ⁽²⁾ | Unit | Test Method |
|------------------|----------------------|------|----------------------|
| Clarity | 70 | % | ASTM D1746 |
| Gloss | 50 | % | ASTM D2457 |
| Haze | 14 | % | ASTM D1003 |
| COF | 0.14 | | BS 2782, Method 824A |

(1) The optimum processing conditions can be different from one machine to the others, depend on the mould and part design.
 (2) The values shown are typical values obtained by averaging a number of tests. Small divergences from the quoted figures may occur.
 (3) Measured on 38 microns film extruded at 2:1 blow ratio.
 (4) MD = film machine direction. TD = film transversal direction.

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