

## Product Data Sheet

**PT. Lotte Chemical Titan Nusantara. (Formerly known as PT TITAN Petrokimia Nusantara)**  
 Head Office : Setiabudi 2 Building Lt 3, Suite 306-307 Jl HR Rasuna Said Kav 62, Jakarta - 12920, Indonesia  
 Phone: +62 21 52907008 Fax: +62 21 52907281  
 Site Location : Jl. Raya Merak Km.116 Cilegon 42436, Banten Indonesia Phone +62 254 572 468 Fax : +62 254 571290  
 Email: [tsc@lottechem.co.id](mailto:tsc@lottechem.co.id) Website : [www.lottechem.co.id](http://www.lottechem.co.id)

# Titanvene™ LL0209SR

## General Linear Low Density Film Applications

Titanvene™ LL0209SR is a linear low density polyethylene designed for wide range of film. Titanvene™ LL0209SR is characterised by low gel content, good transparency, and excellent mechanical properties with low blocking force and high slip.

### Applications

Titanvene™ LL0209SR is typically used for :

- Industrial Packaging
- Shopping Bags
- Food Packaging

### Recommended Processing Conditions <sup>(1)</sup>

Titanvene™ LL0209SR can be easily processed on normal polyethylene blow film machines at temperatures in the range of 150°C to 190°C.

### Food Contact Compliance

Titanvene™ LL0209SR 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 <sup>(2)</sup>	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 <sup>3</sup>	ISO 1183 Method D
Vicat Softening Point	103	°C	ISO 306
Melting Point	122	°C	ISO 3146 Method C
Mechanical Properties <sup>(3)</sup>	Value <sup>(2)(4)</sup>	Unit	Test Method
Tensile Stress at Yield	MD 11 / TD 12	MPa	ISO 1184(E) Speed I
Elongation at Break	MD 750 / TD 850	%	ISO 1184(E) Speed I
Dart Impact Strength	120	gr	ISO 7765-1 Method A
Other Properties	Value <sup>(2)</sup>	Unit	Test Method
Clarity	55	%	ASTM D1746
Gloss	45	%	ASTM D2457
Haze	17	%	ASTM D1003
COF	0.11		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.

**" World's 1<sup>st</sup> Halal Certified Resins - preserve integrity, wholesomeness & hygiene "**

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.