

# Product Data Sheet

**PT. Lotte Chemical Titan Nusantara.** (Formerly known as PT TITAN Petrokimia Nusantara)  
 Head Office : Mangkuluhur City Tower One, 32<sup>nd</sup> 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](mailto:tsc@lottechem.co.id) Website : [www.lottechem.co.id](http://www.lottechem.co.id)

## Titanvene™ HD5301AA

### High Density Blow Film Applications

Titanvene™ HD5301AA is a high density polyethylene suitable for thin blow film extrusion. Titanvene™ HD5301AA is characterised by easy extrusion and processing, low gel level and good tensile properties.

#### Applications

Titanvene™ HD5301AA is specialised for high density blow film applications such as carrier bags, food packaging, industrial packaging, etc.

#### Other Applications

- Synthetic Rattan

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

Titanvene™ HD5301AA can be easily processed on normal polyethylene blow film machines at temperatures in the range of 180°C to 210°C.

#### Food Contact Compliance

Titanvene™ HD5301AA 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)	0.1	g/10 min	ISO 1133 Condition 4
Melt Flow Rate (190°C/21.6 kg)	11	g/10 min	ISO 1133 Condition 7
Nominal Density	0.946	g/cm <sup>3</sup>	ISO 1183 Method D
Vicat Softening Point	125	°C	ISO 306
Melting Point	130	°C	ISO 3146 Method C
Mechanical Properties <sup>(3)</sup>	Value <sup>(2)(4)</sup>	Unit	Test Method
Tensile Stress at Yield	MD = 35 / TD = 29	MPa	ISO 1184 Speed I
Tensile Stress at Break	MD = 56/ TD = 48	MPa	ISO 1184 Speed I
Elongation at Break	MD = 375 TD = 500	%	ISO 1184 Speed I
Dart Impact Strength	150	gr	ISO 7765-1 Method A

- (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 15 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.