Product Data Sheet

PT. Lotte Chemical Titan Nusantara. **(Formerly known as PT TITAN Petrokimia Nusantara)**
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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 (1)
Titanvene™ **HD5301AA** can be easily processed on normal polyethylene blow film machines at temperatures in the range of 180ºC to 210ºC.

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 (2)	Unit	Test Method
Melt Flow Rate (190ºC/2.16 kg)	0.1	g/10 min	ISO 1133 Condition 4
Melt Flow Rate (190ºC/21.6 kg)	11	g/10 min	ISO 1133 Condition 7
Nominal Density	0.946	g/cm³	ISO 1183 Method D
Vicat Softening Point	125	ºC	ISO 306
Melting Point	130	ºC	ISO 3146 Method C
Mechanical Properties (3)	**Value (2) (4)**	**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.

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