



Product Data Sheet

PT. Lotte Chemical Titan Nusantara. (Formerly known as PT TITAN Petrokimia Nusantara)
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Titanvene™ HD5609AA

Tape and Monofilament Applications

Titanvene™ HD5609AA is a high density polyethylene suitable for extrusion and stretching process for filaments and tapes. Titanvene™ HD5609AA is characterised by its low gel content, stretching with few breaks and high tenacity.

Applications

Titanvene™ HD5609AA is designed for:

- Ropes.
- Tarpaulin covers
- Mosquito nets and fishing nets.
- Woven tapes.

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5609AA can be easily processed on normal polyethylene monofilament machines at temperatures in the range of 220°C to 265°C.

Food Contact Compliance

Titanvene™ HD5609AA 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)	0.9	g/10 min	ISO 1133 Condition 4
Nominal Density	0.954	g/cm ³	ISO 1183 Method D
Vicat Softening Point	127	°C	ISO 306
Melting Point	131	°C	ISO 3146 Method C
Mechanical Properties ⁽³⁾	Value ^{(2) (4)}	Unit	Test Method
Tensile Stress at Yield	27	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1700	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	13	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1800	MPa	ISO 178
ESCR Condition B, F ₅₀ ⁽⁴⁾	50	Hours	ASTM D1693

(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 compression molded plaques.

(4) Environment Stress Cracking Resistance 10% Igepal : CO-630

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