

## Product Data Sheet

**PT. Lotte Chemical Titan Nusantara.** (Formerly known as PT TITAN Petrokimia Nusantara)  
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### Titanvene™ HD5401UA

#### Blow Moulding Applications

Titanvene™ HD5401UA is a high density polyethylene for blow moulding.

#### Applications

Titanvene™ HD5401UA is designed for large blow moulding containers such as water tank.

#### Advantages

Titanvene™ HD5401UA is easily processed, very low odour, excellent UV light protection (UV 6) for outdoor exposure and superior impact strength.

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

Titanvene™ HD5401UA is normally processed on blow moulding machines at temperatures range of 170°C to 210°C.

#### Food Contact Compliance

Titanvene™ HD5401UA 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 in 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	0.953	g/cm <sup>3</sup>	ISO 1183 Method D
Vicat Softening Point	127	°C	ISO 306
Melting Point	131	°C	ISO 3146 Method C
Mechanical Properties <sup>(3)</sup>	Value <sup>(2)</sup>	Unit	Test Method
Tensile Stress at Yield	26	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1300	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	16	kJ/m <sup>2</sup>	ISO 179 Type 1 Notch A
Flexural Modulus	1500	MPa	ISO 178
Hardness (Shore D)	66		ISO 868 Type D
ESCR Condition B, F <sub>50</sub> <sup>(4)</sup>	400	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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