



Product Data Sheet

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.

Recommended Processing Conditions ⁽¹⁾

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. TITAN Petrokimia 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)	0.1	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	946	kg/m ³	ISO 1183 Method D
Vicat Softening Point	127	°C	ISO 306
Melting Point	130	°C	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	140	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 5 : 1 blow ratio.
(4) MD = Film machine direction. TD = Film transversal direction.

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