



## 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 <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. TITAN Petrokimia 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) | 0.08                 | g/10 min          | ISO 1133 Condition 4 |
| Melt Flow Rate (190°C/21.6 kg) | 9                    | g/10 min          | ISO 1133 Condition 7 |
| Nominal Density                | 950                  | kg/m <sup>3</sup> | ISO 1183 Method D    |
| Vicat Softening Point          | 127                  | °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    |
| Elongation at Break                  | MD = 400 / TD = 520      | %    | ISO 1184 Speed I    |
| Hardness                             | 65                       |      | ISO 868 Type D      |
| Dart Impact Strength                 | 150                      | g    | 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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