



Product Data Sheet

Titanvene™ HD5609UV

Tape and Monofilament Applications

Titanvene™ HD5609UV is a high density polyethylene, which contains UV stabiliser. Titanvene™ HD5609UV is suitable for extrusion and stretching process for filaments and tapes especially for outdoor use.

Applications

Titanvene™ HD5609UV is designed for:

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

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5609UV can be easily processed on normal polyethylene monofilament machines at temperatures in the range of 220°C to 265°C.

Food Contact Compliance

Titanvene™ HD5609UV 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)	0.9	g/10 min	ISO 1133 Condition 4
Nominal Density	954	kg/m ³	ISO 1183 Method D
Vicat Softening Point	125	°C	ISO 306
Melting Point	131	°C	ISO 3146 Method C

Mechanical Properties ⁽³⁾	Value ⁽²⁾	Unit	Test Method
Tensile Strength at Yield	25	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1400	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	11	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1400	MPa	ISO 178
Hardness (Shore D)	67		ISO 868 Type D

(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.

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