



Product Data Sheet

Titanvene™ HD5707GM

Milk Bottle Applications

Titanvene™ HD5707GM is a high density polyethylene designed for extrusion blow moulding and in particular for dairy product packaging. Titanvene™ HD5707GM is characterised by easy extrusion and processing, good odour and fuming, high stress cracking resistance and high stability for critical beverages and food packaging.

Applications

Titanvene™ HD5707GM is specialised for blow moulding items such as bottles/containers for:

- Milk and dairy products
- Fruit juice
- Beverages

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5707GM can be easily processed on normal polyethylene blow moulding machines at temperatures in the range of 170°C to 200°C.

Food Contact Compliance

Titanvene™ HD5707GM 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)	0.7	g/10 min	ISO 1133 Condition 4
Nominal Density	957	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 Stress at Yield	26	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1100	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	10	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1600	MPa	ISO 178
ESCR Condition B, F ₅₀ ⁽⁴⁾	50	F ₅₀ , hours	ASTM 1693

(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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