LOTTE CHEMICAL TITAN

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 170ºC to 200ºC.

Food Contact Compliance
Titanvene™ **HD5707GM** 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 for the specific grade.

General Properties	Value (2)	Unit	Test Method
Melt Flow Rate (190ºC/2.16 kg)	0.7	g/10 min	ISO 1133 Condition 4
Nominal Density	0.957	g/cm^3	ISO 1183 Method D
Vicat Softening Point	128	ºC	ISO 306
Melting Point	131	ºC	ISO 3146 Method C

Mechanical Properties (3)	Value (2)	Unit	Test Method
Tensile Stress at Yield	27	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1100	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	8	kJ/m^2	ISO 179 Type 1 Notch A
Flexural Modulus	1600	MPa	ISO 178
Hardness (Shore D)	67		ISO 868 Type D
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