LOTTE CHEMICAL TITAN

Product Data Sheet

Titanvene™ HD5502GA

Blow Moulding Applications

Titanvene™ **HD5502GA** is a high density polyethylene of medium molecular weight designed for extrusion applications and in particular for blow moulding. Titanvene™ **HD5502GA** is characterised by easy extrusion and processing, very low odour and fuming, high stress cracking resistance and good impact strength.

Applications

Titanvene™ **HD5502GA** is specialised for blow moulding items such as bottles/containers up to 5 litres capacity for:

- Food products and households
- Toiletries
- Pharmaceuticals and personal products
- Industrial chemicals or oils.

Other applications :

- Non-pressure pipe and conduits.
- Synthetic rattan

Recommended Processing Conditions (1)

Titanvene™ **HD5502GA** can be easily processed on normal polyethylene blow moulding machines at temperatures in the range of 170ºC to 200ºC.

Food Contact Compliance

Titanvene™ **HD5502GA** 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)	0.38	g/10 min	ISO 1133 Condition 4
Melt Flow Rate (190ºC/21.6 kg)	28	g/10 min	ISO 1133 Condition 7
Nominal Density	0.952	g/cm^3	ISO 1183 Method D
Vicat Softening Point	127	ºC	ISO 306
Melting Point	131	ºC	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	1400	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	11	kJ/m^2	ISO 179 Type 1 Notch A
Flexural Modulus	1500	MPa	ISO 178
Hardness (Shore D)	65		ISO 868 Type D
ESCR Condition B, F_{50} (4)	150	Hours	ASTM D1693

(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