LOTTE CHEMICAL
TITAN

Product Data Sheet

Titanvene™ HD6070EA

General Injection Moulding Applications

Titanvene™ **HD6070EA** is a high density polyethylene copolymer with a narrow molecular weight distribution. It is suitable for a wide range of injection moulding applications. Titanvene™ **HD6070EA** is characterised by easy processing, high rigidity, good impact resistance and high warpage resistance.

Applications

Titanvene™ **HD6070EA** is designed for:

- Bottle crates.
- Pails and containers.
- Pallets and structural foam.
- Tube shoulder.
- Caps for still drinking water.
- Caps for non-carbonated beverages.

Recommended Processing Conditions (1)

Titanvene™ **HD6070EA** can be easily processed on normal polyethylene injection moulding machines at temperatures in the range of 200ºC to 240ºC.

Food Contact Compliance

Titanvene™ **HD6070EA** 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)	7.5	g/10 min	ISO 1133 Condition 4
Nominal Density	0.958	g/cm^3	ISO 1183 Method D
Vicat Softening Point	128	ºC	ISO 306
Melting Point	132	ºC	ISO 3146 Method C

Mechanical Properties (3)	Value (2)	Unit	Test Method
Tensile Stress at Yield	28	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	2100	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	7	kJ/m^2	ISO 179 Type 1 Notch A
Flexural Modulus	1700	MPa	ISO 178
Hardness (Shore D)	68		ISO 868 Type D
ESCR Condition B, F_{50} (4)	7	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