

Product Data Sheet

Titanvene™ HD5218EA

General Injection Moulding Applications

Titanvene™ HD5218EA is an easy flow high density polyethylene suitable for thin wall injection moulding application. Titanvene™ HD5218EA is characterized by its high flow rate suitable for fast process cycle and low moulding warpage.

Applications

Titanvene™ HD5218EA is designed for:

- House wares.
- Thin walled containers.
- Toys.

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5218EA can be easily processed on normal polyethylene injection moulding machines at temperatures in the range of 200°C to 240°C.

Food Contact Compliance

Titanvene™ HD5218EA 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 (190°C/2.16 kg)	18	g/10 min	ISO 1133 Condition 4
Nominal Density	0.950	g/cm ³	ISO 1183 Method D
Vicat Softening Point	124	°C	ISO 306
Melting Point	130	°C	ISO 3146 Method C
Mechanical Properties ⁽³⁾	Value ⁽²⁾	Unit	Test Method
Tensile Stress at Yield	25	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	250	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	5	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1300	MPa	ISO 178
Hardness (Shore D)	65		ISO 868 Type D
ESCR Condition B, F ₅₀ ⁽⁴⁾	3	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

