

Product Data Sheet

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Titanvene™ HD5740UA

Heavy Duty Injection Moulding Applications

Titanvene™ HD5740UA is an ultra violet (UV) light stabilised high density polyethylene copolymer with a narrow molecular weight distribution, specially developed for injection moulding of heavy duty articles. Titanvene™ HD5740UA is characterised by its high rigidity, high impact resistance (especially for low temperature) and high weathering resistance.

Applications

Titanvene™ HD5740UA is designed for:

- Caps and Closure
- Large dustbin and pails
- Fish crates/pallet boxes
- Technical parts

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5740UA can be easily processed on normal polyethylene injection moulding machines at temperatures in the range of 200°C to 240°C and compression moulding machines in the range of 150 °C to 170 °C.

Food Contact Compliance

Titanvene™ HD5740UA 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)	4.0	g/10 min	ISO 1133 Condition 4
Nominal Density	0.955	g/cm ³	ISO 1183 Method D
Vicat Softening Point	127	°C	ISO 306
Melting Point	132	°C	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	2200	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	9	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1600	MPa	ISO 178
Hardness (Shore D)	66		ISO 868 Type D
ESCR Condition B, F ₅₀ ⁽⁴⁾	9	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

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