

Product Data Sheet

Titanvene™ HD5740EA-B

Organoleptic Closure Applications

Titanvene™ HD5740EA-B is a high density polyethylene copolymer with a narrow molecular weight distribution, which has been specially developed for packaging of still drinking water. Titanvene™ HD5740EA-B has excellent organoleptic properties that do not significantly transfer taste or odour to the packaged product. Titanvene™ HD5740EA-B is characterized by its high rigidity, high impact resistance and good weathering resistance. Titanvene™ HD5740EA-B also stabilized with UV stabilizer for out door applications.

Applications

Titanvene™ HD5740EA-B is designed for bottle caps of still mineral water or other closures where low odor and taste are required.

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5740EA-B can be easily processed on normal polyethylene injection molding & compression molding machines at temperatures in the range of 200 °C to 240 °C.

Food Contact Compliance

Titanvene™ HD5740EA-B 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

