



Product Data Sheet

Titanvene™ HD5120EA

Non-Organoleptic Closure Applications

Titanvene™ HD5120EA is a high density polyethylene copolymer with a narrow molecular weight distribution, which has been specially developed for packaging of carbonated beverages and for other applications where very high environmental stress cracking resistance (ESCR) is required. Titanvene™ HD5120EA offering excellent impact strength and creep resistance and very high ESCR.

Applications

Titanvene™ HD5120EA is designed for bottle caps of carbonated beverages or other closures where very high ESCR is required.

Recommended Processing Conditions ⁽¹⁾

Titanvene™ HD5120EA can be easily processed on normal polyethylene injection molding machines at temperatures in the range of 200°C to 240°C

Food Contact Compliance

Titanvene™ HD5120EA can be used in food contact applications. Please contact your nearest PT. TITAN Petrokimia 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)	2	g/10 min	ISO 1133 Condition 4
Nominal Density	950	kg/m ³	ISO 1183 Method D
Vicat Softening Point	124	°C	ISO 306
Melting Point	131	°C	ISO 3146 Method C

Mechanical Properties ⁽³⁾	Value ⁽²⁾	Unit	Test Method
Tensile Strength at Yield	27	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	1800	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	10	kJ/m ²	ISO 179 Type 1 Notch A
Flexural Modulus	1300	MPa	ISO 178
Hardness (Shore D)	65		ISO 868 Type D

(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.

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