Product Data Sheet

Titanvene™ HD5211EA-B
Organoleptic Closure Applications

Titanvene™ **HD5211EA-B** is a high density polyethylene copolymer grade with a narrow molecular weight distribution. Titanvene™ **HD5211EA-B** has been specially developed for packaging drinking water and other beverages. Titanvene™ **HD5211EA-B** has excellent organoleptic properties, which does not significantly transfer taste or odour to the packaged product. Titanvene™ **HD5211EA-B** offering easy processing, good impact strength, high warpage resistance and excellent organoleptic properties.

Applications
Titanvene™ **HD5211EA-B** is designed for bottle caps of still drinking water and non-carbonated beverages.

Recommended Processing Conditions [1]
Titanvene™ **HD5211EA-B** can be easily processed on normal polyethylene injection moulding machines at temperatures in the range of 200ºC to 240ºC.

Food Contact Compliance
Titanvene™ **HD5211EA-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 (190ºC/2.16 kg)	12	g/10 min	ISO 1133 Condition 4
Nominal Density	0.950	g/cm³	ISO 1183 Method D
Vicat Softening Point	124	ºC	ISO 306
Melting Point	131	ºC	ISO 3146 Method C

Mechanical Properties [3]	Value [2]	Unit	Test Method
Tensile Stress at Yield	24	MPa	ISO/R 527 Type 2 Speed C
Elongation at Break	550	%	ISO/R 527 Type 2 Speed C
Charpy Impact Strength	6	kJ/m²	ISO 179 Type 1 Notch A
Flexural Modulus	1400	MPa	ISO 178
Hardness (Shore D)	66		ISO 868 Type D
ESCR Condition B, F_{50} [4]	5	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