

# Titanvene™ HD5211EA-B

High Density Polyethylene  
PT. TITAN Petrokimia Nusantara

## Message:

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

Titanvene™ HD5211EA-B 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™ HD5211EA-B 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 Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Organoleptic Properties		
	Good Processability		
	Low Odor Transfer		
	Low to No Taste		
	Narrow Molecular Weight Distribution		
	Warp Resistant		
Uses	Caps		
	Closures		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	5.00	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield)	22.0	MPa	ISO 527-2/2
Tensile Strain <sup>2</sup> (Break)	550	%	ISO 527-2/2
Flexural Modulus	1400	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m <sup>2</sup>	ISO 179/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ISO 306
Melting Temperature (DSC) <sup>3</sup>	131	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 240	°C	
NOTE			
1.	Speed C		
2.	Speed C		
3.	Method C		

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#### Recommended distributors for this material

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