

# Titanvene™ HD5120EA-B

High Density Polyethylene  
PT. TITAN Petrokimia Nusantara

Message:

Titanvene™ HD5120EA-B 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-B has excellent organoleptic properties that do not significantly transfer taste or odour to the packaged product. Titanvene™ HD5120EA-B is characterised by excellent impact strength and creep resistance.

Applications

Titanvene™ HD5120EA-B is designed for bottle caps

Recommended Processing Conditions

Titanvene™ HD5120EA-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™ HD5120EA-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	Food Contact Acceptable		
	Good Creep Resistance		
	Good Organoleptic Properties		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Low Odor Transfer		
	Low Taste Transfer		
Uses	Caps		
	Closures		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (10% Igepal CO-630, F50)	40.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (Yield)	26.0	MPa	ISO 527-2/2
Tensile Strain <sup>2</sup> (Break)	1800	%	ISO 527-2/2
Flexural Modulus	1300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m <sup>2</sup>	ISO 179/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°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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