Titanvene™ HD5120GB-B

High Density Polyethylene

PT. TITAN Petrokimia Nusantara

Message:

Titanvene™ HD5120GB-B is a high density polyethylene copolymer with a narrow molecular weight distribution, which has been specially developed for packaging carbonated beverages and for other applications where very high environmental stress cracking resistance (ESCR) is required. Titanvene™ HD5120GB-B has very good organoleptic properties, which does not significantly transfer taste or odour to the packaged product. Titanvene™ HD5120GB-B contains high slip agent to reduce the forces required to seal and open the cap. Titanvene™ HD5120GB-B is characterised by excellent impact strength and creep resistance.

Applications

Titanvene™ HD5120GB-B is specialised for bottle caps for carbonated beverages or other closures where very high ESCR and reduced sealing and opening forces are required.

Recommended Processing Conditions

Titanvene™ HD5120GB-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™ HD5120GB-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 Creep Resistance Good Organoleptic Properties High ESCR (Stress Crack Resist.) High Impact Resistance Low Odor Transfer Low Taste Transfer Narrow Molecular Weight Distribution		
Uses	Caps Closures		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.954	g/cm³	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 [1] (Yield)	26.0	MPa	ISO 527-2/2
Tensile Strain [2] (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^2	ISO 179/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	124	°C	ISO 306
Melting Temperature (DSC) [3]	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		

Recommended distributors for this material

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