Titanvene™ HD5002GA

High Density Polyethylene

PT. TITAN Petrokimia Nusantara

Message:

Titanvene™ HD5002GA is a high density polyethylene of medium molecular weight designed for extrusion applications. Titanvene™ HD5002GA is characterised by easy extrusion and processing, very low odour and fuming, high stress cracking resistance and good impact strength.
Applications
Titanvene™ HD5002GA is specialised extrusion application:
Non-pressure pipe and conduits.
Synthetic rattan
Extrusion blow moulding (bottle with volume = 10 litres).
Recommended Processing Conditions
Titanvene™ HD5002GA can be easily processed on normal polyethylene extrusion machines at temperatures in the range of 170°C to 200°C.
Food Contact Compliance
Titanvene™ HD5002GA 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 Processability
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	Low to No Odor
	Medium Molecular Weight
Uses	Piping
Processing Method	Extrusion
	Extrusion Blow Molding

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	ISO 1183/D
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg [1]	15	g/10 min	
190°C/5.0 kg [2]	0.70	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal, F50)	200	hr	ASTM D1693B
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [3] (Yield)	26.0	MPa	ISO 527-2/2
Tensile Strain [4] (Break)	1400	%	ISO 527-2/2
Flexural Modulus	1500	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	12	kJ/m²	ISO 179/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	126	°C	ISO 306

Melting Temperature (DSC) [5]	131	°C	ISO 3146

Extrusion	Nominal Value	Unit
Melt Temperature	170 to 200	°C

NOTE	
1.	Condition 7
2.	Condition 5
3.	Speed C
4.	Speed C
5.	Method C

Recommended distributors for this material

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