

Titanvene™ LL0335AA

Linear Low Density Polyethylene

PT. TITAN Petrokimia Nusantara

Message:

Titanvene™ LL0335AA is a linear low density polyethylene designed for silane crosslinked low voltage power cable insulation, casting film and inner layer for rotomolding. Titanvene™ LL0335AA characterized by high speed performance, low gel content, easy extrusion.

Applications

Low voltage power cable insulation for sioplas process.

Casting film.

Inner layer for rotomolding (Non UV)

Recommended Processing Conditions

Titanvene™ LL0335AA can be easily processed on normal machines at temperatures in the range of 150°C to 220°C.

Food Contact Compliance

Titanvene™ LL0335AA 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 Information			
Features	Food Contact Acceptable		
	Low Gel		
Uses	Cable Jacketing		
	Cast Film		
	Low Voltage Insulation		
Agency Ratings	EC 1907/2006 (REACH)		
	EU Unspecified Rating		
	FDA 21 CFR 177.1520(a) 2 (i)		
	FDA 21 CFR 177.1520(c) 2.1		
RoHS Compliance	RoHS Compliant		
Processing Method	Cast Film		
	Extrusion		
	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) ¹ (190°C/2.16 kg)	3.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ² (Yield)	12.0	MPa	ISO 527-2/2
Tensile Strain ³ (Break)	> 800	%	ISO 527-2/2
Coefficient of Friction ⁴	0.80		BS 2782
Films	Nominal Value	Unit	Test Method
Tensile Stress ⁵			ISO 1184

MD : Yield	11.0	MPa	
TD : Yield	12.0	MPa	
Tensile Elongation ⁶			ISO 1184
MD : Break	700	%	
TD : Break	800	%	
Dart Drop Impact	70	g	ISO 7765-1/A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC) ⁷	124	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Constant	2.54		ASTM D150
Dissipation Factor	< 1.0E-4		ASTM D150
Optical	Nominal Value	Unit	Test Method
Gloss	50		ASTM D2457
Clarity	71.0		ASTM D1746
Haze	15	%	ASTM D1003
NOTE			
1.	Condition 4		
2.	Molded Plaque, Speed C		
3.	Molded Plaque, Speed C		
4.	Method 824A		
5.	Speed 1		
6.	Speed 1		
7.	Method C		

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