

Linear Low Density Polyethylene LF321FC

Description:

LF321FC is a Linear Low Density Polyethylene produced by gas phase process, specially developed for XLPE silane cross-linking in monosil process, to use in insulation and jacketing for low voltage wires and cables. This product contains suitable additives, low oligomer rate and very low gel content.

Applications:

Recommended to cross-linking monosil process, to insulation and jacketing for low voltage XLPE wires and cables.

Process:

The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee. The optimum processing conditions are 170 - 210°C.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	2.7
Density	D 1505	g/cm ³	0.919

Typical Properties:

Plaque Properties^a

	ASTM Method	Units	Values
Tensile Strength at Break	D 638	MPa	23.9
Elongation at Break	D 638	%	1950
Shore D Hardness	D 2240	-	50
Environmental Stress Cracking Resistance ^b	D 1693	h	>1000
Relative Dielectric Constant, 1 KHz	D 150		2.2
Dissipation Factor, 1 KHz	D 150	%	0,0003
Dielectric Strength	D 149	kV/mm	41
Volume Resistivity	D 257	ohm.cm	> 1x10 ¹⁵

(a) Test specimens prepared from compression molded sheet made according to ASTM D 4703.

(b) Compression molded 2 mm thickness, 0.3 mm notched-plaques; 100% Igepal; 50°C.

Final Remarks:

- The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
- In some applications, Braskem has developed tailor-made resins to reach specific requirements.
- In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
- For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. Cas Registry number: 25087-34-7.
- The mentioned values in this report can be changed at any moment without Braskem previous communication.
- Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
- The content of this Data Sheet replaces previous revisions published for this product.
- This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.