TECHNICAL DATA SHEET

Repsol ALCUDIA 2202F

REPSOL ALCUDIA 2202F is a high molecular weight, low density polyethylene which offers easy processing combined with good mechanical properties. Its molecular characteristics make it be an excellent product for the Monosil process. The outstanding feature of this product is its cross-linking efficiency. This grade does not contain antioxidant therefore its addition is necessary to guarantee thermal stability of the final product.

Applications:

- Insulation of low voltage cables.

The conditions of transformation and the quality of Silane used are the fundamental parameters to obtain adequate cross-linking and surface finish. It is recommended a melt temperature of 200ºC - 220ºC. The temperature profile, however, will largely depends on the type of machine used.

REPSOL ALCUDIA 2202F meets the following standards: ISO 1872 KN 23D001/003; ASTM D 1248 I,A5 Grade E5.

Properties:

Properties	Value	Unit	Test Method
GENERAL			
Melt flow rate (190ºC, 2.16kg)	0.25	g/10 min	ISO 1133
Density at 23 ºC	921	kg/m3	ISO 1183
MECHANICAL			
Tensile Strain at Break	16	MPa	ISO 527-2
Elongation at Break	600	%	ISO 527-2
Flexural Modulus	260	MPa	ISO 178
THERMAL			
Brittleness temperature (-76ºC)	0	failures	ASTM D 746
Vicat Softening Temperature (10 N)	95	ºC	ISO 306
ELECTRICAL			
Dielectric Constant (1 MHz)	2.3	-	ASTM D 1531
Dielectric Dissipation Factor (1 MHz)	3E-4	-	ASTM D 1531

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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Storage:

The grade REPSOL ALCUDIA 2202F should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 50ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and the properties of the transformed product

Disclaimer:

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

Related documents:

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet.
- Statement on compliance with food contact regulations.

Recommended consumption period: 12 months from the date of delivery to the customer.

March 2026

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