Technical Data Sheet
Chemicals

REPSOL ALCUDIA 2202CN

REPSOL ALCUDIA 2202CN is a high molecular weight, low density polyethylene black compound which offers easy processing combined with good mechanical properties. It contains well dispersed carbon black and antioxidant in order to ensure UV radiation resistance and thermal ageing respectively. The outstanding features of this grade are its excellent processability, which makes suitable product for self-soported cable, and its good environmental stress cracking resistance (ESCR).

Applications

- Black jacketing of telecommunication cables.

It is recommended a temperature profile between 150 – 210ºC. Optimal processing conditions must be tuned for each production line.

REPSOL ALCUDIA 2202CN meets the following specifications: ISO 1872 PE KHC 23D003; ASTM D 1248 I,C5 Grade J3; NF C 32-060 GE1; VDE 0207 Teil3 2YM2.

PROPERTIES	VALUE	UNIT	TEST METHOD
GENERAL			
Melt Flow rate (190ºC/2,16 kg)	0.25	g/10 min	ISO 1133
Density at 23°C	934	kg/m^3	ISO 1183
Oxidation Induction Time (200°C)	>30	min	UNE EN 728
Environmental Stress Cracking Resistance (F0)	>1000	h	ASTM D 1693
Carbon Black Content	2.7	%	ASTM D 1603
MECHANICAL			
Tensile Strain at Break	14	MPa	ISO 527-2
Elongation at break	600	%	ISO 527-2
Retention of mechanical properties after ageing 100°C, 10 days	≥75	%	ISO 527-2
Shore Hardness D	50	-	ISO 868
THERMAL			
Brittleness temperature (-76ºC)	0	failures	ASTM D 746
Vicat Softening Temperature (10 N)	93	ºC	ISO 306
ELECTRICAL			
Dielectric Constant (1 MHz)	2.6	-	ASTM D 1531
Dielectric Dissipation Factor (1 MHz)	5E-3	-	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 registeres desings cannot be assumed.

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All our polyolefins are recyclable

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Storage

REPSOL ALCUDIA 2202CN 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 does not comply with the European regulations for materials for use in contact with food, nor is it intended to be used in medical, pharmaceutical, or health applications, so 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

Recommended consumption period: 12 months from the raw material reception

July 2021

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