ALCUDIA® LDPE CN-105

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® CN-105 is based on a special low density polyethylene, which provides excellent properties to the final product. It is characterized by its excellent environmental stress cracking resistance (ESCR), good processability and low temperature performance. This grade contains well dispersed carbon black in order to ensure good outdoor weather resistance and antioxidant to improve the thermal ageing properties. TYPICAL APPLICATIONS

Black jacketing of telecommunication cables.

ALCUDIA® CN-105 processing conditions depend mainly on the type of extrusion equipment but as a guiding idea, it is recommended a temperature profile between 150 - 210°C.

ALCUDIA® CN-105 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.

General Information					
Additive	itive Antioxidation				
	Carbon black (3%)				
Features	High ESCR (Stress Cracking Resista	ance)			
	Antioxidation				
	Workability, good				
	Good weather resistance				
Uses	Cable sheath				
	Wire and cable applications				
Agency Ratings	ASTM D 1248, I, Class C, Cat. 5, Gr	ade 13			
Agency Roungs	ISO 1872 PE KHC 23D003				
	NF C 32-060 GE1				
	VDE 0207 Teil3 2YM2				
Appearance	Black				
Forms	Particle				
Processing Method	Extrusion				
Physical	Nominal Value	Unit	Test Method		
Density	0.934	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR) (190°C/2.16					
kg)	0.25	g/10 min	ISO 1133		
Environmental Stress-Cracking Resistance (F0)	> 1000	hr	ASTM D1693		
Carbon Black Content	2.5	%	ASTM D1603		
Retention of Mechanical Properties ¹					
(110°C)	> 75	%	ISO 527-2		
Oxidation Induction Time (200°C)	> 30	min	EN 728		

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	49		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	14.0	MPa	ISO 527-2
Tensile Strain (Break)	600	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ²	-76.0	°C	ASTM D746
Vicat Softening Temperature	94.0	°C	ISO 306/A
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.60		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
NOTE			
1.	10 days		
2.	0 Failures		

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