

# ALCUDIA® LDPE CN-102

Low Density Polyethylene

REPSOL

## Message:

ALCUDIA® compound CN-102 has been esencially developed for coating of steel pipe using extrusion techniques. Furthermore it is designed for steelpipe coating to comply with the requirements of the DIN-30670 specification standard.

CN-102 is a high viscosity high molecular weight low density polyethylene black compound which offers easy processing combined with smooth glossy surface finish, excellent resistance to mechanical deformation and corrosion.

The combination of the antioxidant system and minimum of 2.2% well dispersed carbon black used in CN-102 provides the following features:

- excellent protection against thermal oxidation during processing.
- long term stability.
- excellent protection against outdoor weathering.

Because of the good mechanical properties and their characteristics, the polyethylene black compound ALCUDIA® CN-102, is designed to produce pipe.

General Information	
Additive	Carbon Black (2%)
Features	Food Contact Acceptable
	Good Processability
	Good Weather Resistance
	High Gloss
	High Molecular Weight
	High Viscosity
Uses	Coating Applications
	Pipe Coatings
	Piping
Agency Ratings	DIN 30670
Appearance	Black
Processing Method	Extrusion
	Extrusion Coating
	Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.932	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			EN 638
Yield	12.0	MPa	
Break	16.0	MPa	
Tensile Strain (Break)	500	%	EN 638
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature <sup>1</sup>	-76.0	°C	ASTM D746
Vicat Softening Temperature	92.0	°C	ASTM D1525 <sup>2</sup>
Oxidation Induction Time (210°C)	> 15	min	EN 728
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 to 200	°C	
Cylinder Zone 2 Temp.	185 to 210	°C	
Cylinder Zone 3 Temp.	190 to 220	°C	
Cylinder Zone 4 Temp.	195 to 230	°C	
Cylinder Zone 5 Temp.	200 to 240	°C	
Melt Temperature	200 to 230	°C	
NOTE			
1.	0/10 failures		
2.	Rate A (50°C/h)		

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