

ALCUDIA® LDPE 2202-CN

Low Density Polyethylene
REPSOL

Message:

ALCUDIA® 2202-CN 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).

General Information			
Additive	Antioxidation		
	Carbon black (3%)		
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Antioxidation		
	Workability, good		
Uses	Cable sheath		
	Wire and cable applications		
Agency Ratings	ASTM D 1248, I, Class C, Cat. 5, Grade J3		
	ISO 1872 PE KHC 23D003		
	NF C 32-060 GE1		
	VDE 0207 Teil3 2YM2		
Appearance	Black		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.934	g/cm ³	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 (100°C)	> 75	°C	ISO 527-2
Oxidation Induction Time (200°C)	> 30	min	EN 728
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	50		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	93.0	°C	ISO 306/A
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.60		ASTM D2520
Dissipation Factor (1 MHz)	5.0E-3		ASTM D2520
NOTE			
1.	10 days		
2.	0 Failures		

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