ALCUDIA® LDPE CP-104

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® CP-104 is a natural and cross-linkable compound based on low density polyethylene, specifically designed to be cross-linked by organic peroxide. It contains a special antioxidant to guarantee thermal stability and causes minimum interference with the cross-linking process. The outstanding features of this grade are cleanliness, excellent thermal stability, good processing behaviour, excellent cross-linking efficiency at high speed and smooth surface finish.
ALCUDIA® CP-104 is normally supplied in octabins, tankers and van-boxes.
TYPICAL APPLICATIONS
Medium voltage power cable insulation.
Processing conditions of ALCUDIA® CP-104 are dependent on formulation and technique employed but it is noteworthy that this grade is suitable to use in a temperature range of 120°C - 130°C.
ALCUDIA® CP-104 meets the following standards: ISO 1872 PE KHN 18D022; ASTM D 1248 I,A3 Grade E5.

General Information			
Additive	Antioxidation		
Features	High molecular weight Antioxidation Workability, good Crosslinkable Thermal stability, good Excellent appearance		
Uses	Wire and cable applications Insulating material		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3, Grade E5 ISO 1872 PE KHN 18D022		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.920	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	14.0	MPa	ISO 527-2
Tensile Strain (Break)	600	%	ISO 527-2
Aging	**Nominal Value**	**Unit**	**Test Method**
Retention of Mechanical Properties [1] (100°C)	> 75	%	ISO 527-2
Thermoset [2] (200°C)		%	IEC 60811-2-1

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	91.0	°C	ISO 306/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength [3]	> 22	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.30		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
NOTE			
1.	10 days, 1.9% Peroxide		
2.	20 N/cm^2, 1.9% Peroxide		
3.	50 Hz		

Recommended distributors for this material

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