ALCUDIA® HDPE C-240-UV

High Density Polyethylene

REPSOL

Message:

ALCUDIA® C-240-UV is a natural high molecular weight and high density polyethylene that gives to the compound the following features: excellent processability; high abrasion resistance; good mechanical properties; excellent environmental stress cracking resistance (ESCR) and superior compatibility with pigments. It contains an antioxidant system which warranties protection against thermal oxidation during processing and long term stability.
TYPICAL APPLICATIONS
Colour Jacketing for power and telecommunication cables.
It is recommended an extrusion melt temperature of 220°C and a temperature profile between 190 - 235°C. Optimal processing conditions must be tuned for each production line.
ALCUDIA® C-240-UV meets the following specifications: ISO 1872 PE KHN 40D001/003; ASTM D 1248 II, A5, J5; UNESA 3305C.

General Information	
Additive	Antioxidation UV stabilizer
Features	High ESCR (Stress Cracking Resistance) High molecular weight Antioxidation Good UV resistance Workability, good Good coloring Good wear resistance Good weather resistance Excellent appearance
Uses	Cable sheath Wire and cable applications
Agency Ratings	ASTM D 1248, II, Class A, Cat. 5, Grade J5 ISO 1872 PE KHN 40D001 ISO 1872 PE KHN 40D003 UNESA 3305C
Appearance	Natural color
Forms	Particle
Processing Method	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ISO 1133

Environmental Stress-Cracking Resistance (F50)	> 1000	hr	ASTM D1693
Carbon Black Content	2.5	%	ASTM D1603
Retention of Mechanical Properties			
110°C [1]	> 75	%	ISO 527-2
50% retention after aging	> 25.0	day	
Oxygen sensing time (200°C)	> 40	min	EN 728
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	60		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	28.0	MPa	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature [2]	-76.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ISO 306/A
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant (1 MHz)	2.30		ASTM D150
Dissipation Factor (1 MHz)	4.0E-4		ASTM D150
NOTE			
1.	14 days		
2.	0 Failures		

Recommended distributors for this material

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