ALCUDIA® HDPE 5605-N

High Density Polyethylene

REPSOL

Message:

ALCUDIA® 5605-N is a bimodal high density polyethylene black compound with a special molecular structure to provide very low shrinkage during processing. Due to this outstanding characteristic, this grade is a very good product for optical fiber and contains a combination of antioxidant system with well dispersed carbon black which provide the following features: excellent protection against thermal oxidation during processing; long term stability and excellent outdoor weather resistance. This grade is widely used for sheathing of jelly-filled constructions and optical fiber. It is also suitable for power cable jacketing.

General Information			
Additive	Antioxidation Carbon black (2%)		
Features	Antioxidation Good weather resistance Low shrinkage Bimodal molecular weight distribution		
Uses	Jacketing Cable sheath Wire and cable applications		
Agency Ratings	ISO 1872 PE KHC 40/45 D003/006 VDE 0207 Teil3 2YM1		
Appearance	Black		
Processing Method	Wire & Cable Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.958	g/cm^3	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.45	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F0)	> 1000	hr	ASTM D1693
Carbon Black Content	2.3	%	ASTM D1603
Retention of Mechanical Properties			ISO 527
10 days : 100°C	> 75	%	ISO 527
14 days : 110°C	> 75	%	ISO 527
Oxygen sensing time (200°C)	> 30	min	EN 728
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Stress (Break)	> 30.0	MPa	ISO 527-2
Tensile Strain (Break)	> 600	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature [1]	-76.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ISO 306/A
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.50		ASTM D1531
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
NOTE			
1.	0 Failures		

Recommended distributors for this material

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