

Visico™ LE0540

Crosslinked Polyethylene

Borealis AG

Message:

Visico LE0540 is a silane crosslinkable black polyethylene compound, specially designed for bonded semiconductive screen applications.

Visico LE0540 is highly suitable for co-extrusion with LDPE silane crosslinkable insulation materials.

Visico LE0540 is intended for semiconductive applications for silane crosslinkable medium voltage cables with rated voltages up to 36 kV.

Specifications:

AEIC CS8

BS 6622

Cenelec HD 620 S-1

IEC 60502

ISO 1872-E/BA, KHXY, 23-G200, C30

NF C33-223

Visico LE0540 a ready-to-use compound, which requires no further addition of a catalyst masterbatch. Visicom LE0540 crosslinks via the migration of catalyst from its co-extrusion with silane insulation layer. The excellent distribution of carbon black and additives in Visico LE0540 would result in an outstanding smooth semiconductive screen. Visico LE0540 offers easy and long extrusion performance.

General Information			
Additive	Carbon black		
	Unspecified additive		
Features	Semi-conductive		
	Workability, good		
	Crosslinkable		
	Excellent appearance		
Uses	Wire and cable applications		
	Insulating material		
	Bonding		
	Medium voltage insulation		
Agency Ratings	AEIC CS8		
	BS 6622		
	EC 1907/2006 (REACH)		
	HD 620 S1		
	IEC 60502		
	NF C 33-223		
Appearance	Black		
Processing Method	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.08	g/cm³	ISO 1183

Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	25	g/10 min	ISO 1133
Moisture Content ²	200	ppm	Karl Fisher
Change in Tensile Properties - After Ageing 240 h (135°C)		%	IEC 60811-1-2
Thermoset ³ (200°C)	25	%	IEC 60811-2-1
Pressure Test - High Temperature ⁴ (90°C)		%	IEC 60811-3-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	50		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	13.0	MPa	ISO 527-2/25
Tensile Strain (Break)	400	%	ISO 527-2/25
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ISO 3915
-- ⁵	< 1.0E+3	ohms·cm	ISO 3915
-- ⁶	< 1.0E+2	ohms·cm	ISO 3915
Additional Information	Nominal Value	Unit	Test Method

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

Extrusion	Nominal Value	Unit
Cylinder Zone 2 Temp.	150	°C
Cylinder Zone 3 Temp.	150	°C
Cylinder Zone 4 Temp.	150	°C
Melt Temperature	< 170	°C
Extrusion instructions		

Head Temperature: 150°C

NOTE	
1.	ISO 1872-2
2.	Titration
3.	Elongation under load, 0.20 MPa
4.	6 hrs
5.	90°C
6.	23°C

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