

Borealis PE LE0574

Polyethylene

Borealis AG

Message:

LE0574 is a thermoplastic black polyethylene compound, specially designed for strippable semiconductive screen applications. It can be used in thermoplastic form or crosslinked via a grafting process.

LE0574 is intended for strippable semiconductive shield for silane crosslinkable medium voltage cables with rated voltages up to 36 kV.

LE0574 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

BS 6622
IEC 60502
ISO 1872-EVAC, KHYX, 40-G090, C35
NF C33-223

General Information			
Features	Semi-conductive		
	Crosslinkable		
Uses	Cable sheath		
	Medium voltage insulation		
Agency Ratings	BS 6622		
	IEC 60502		
	ISO 1872 EVAC KHYX 40G090 C35		
	NF C 33-223		
Appearance	Black		
Forms	Particles		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.14	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10	g/10 min	ISO 1133
Moisture Content ²		ppm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	56		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	12.0	MPa	ISO 527-2/25
Tensile Strain (Break)	200	%	ISO 527-2/25
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ISO 3915
-- ³	< 1.0E+3	ohms · cm	ISO 3915
-- ⁴	< 1.0E+2	ohms · cm	ISO 3915
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	170	°C
Cylinder Zone 2 Temp.	180	°C
Cylinder Zone 3 Temp.	185	°C
Cylinder Zone 4 Temp.	190	°C
Cylinder Zone 5 Temp.	190	°C
Melt Temperature	> 180	°C

Extrusion instructions

Head: 190°C

NOTE

- | | |
|----|------------------------|
| 1. | ISO 1872-2 |
| 2. | Karl Fischer-titration |
| 3. | 90°C |
| 4. | 23°C |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT