CABELEC® CA3817

Linear Low Density Polyethylene

Cabot Corporation

Message:

CABELEC® 3817 is an electrically conductive compound based on conductive carbon black and a modified linear low density polyethylene resin. Its electrical and mechanical properties are permanent and are not dependent on atmospheric conditions.
CABELEC 3817 is recommended for packaging and product handling applications where freedom from the hazard of electrostatic discharge is necessary. Examples of use are in handling of explosive powders, pigments and electronic components.

General Information	
Additive	Carbon Black
Features	Electrically Conductive
Uses	Electrical Parts Packaging
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Black
Forms	Pellets
Processing Method	Blown Film Film Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity [1]	1.04	g/cm³	Internal Method
Melt Mass-Flow Rate (MFR) [2]			ISO 1133
190°C/10.0 kg	6.0	g/10 min	
190°C/5.0 kg	2.0	g/10 min	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus [3] (Compression Molded)	284	MPa	ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [4]			ISO 527-3/500
MD : Yield, 100 µm	11.8	MPa	
TD : Yield, 100 µm	11.5	MPa	
MD : 100 µm	25.1	MPa	
TD : 100 µm	22.4	MPa	
Tensile Elongation [5]			ISO 527-3/500
MD : Break, 100 µm	1100	%	
TD : Break, 100 µm	940	%	
Trouser Tear Resistance			ASTM D1938
MD : 50 µm	106	N/mm	
TD : 50 µm	104	N/mm	
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity [6] (0.100 mm)	1.0E+4	ohms	Internal Method

Extrusion	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Cylinder Zone 1 Temp.	200 to 230	°C
Cylinder Zone 2 Temp.	200 to 230	°C
Cylinder Zone 3 Temp.	200 to 230	°C
Cylinder Zone 4 Temp.	200 to 230	°C
Cylinder Zone 5 Temp.	200 to 230	°C
Die Temperature	200 to 230	°C

NOTE	
1.	CTM E023
2.	CTM E005
3.	CTM E040A
4.	CTM E041
5.	CTM E041
6.	CTM E042B

Recommended distributors for this material

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