

# CABELEC® CA4676

Low Density Polyethylene

Cabot Corporation

## Message:

CABELEC CA4676 electrically conductive compound is based on conductive carbon black dispersed in a modified low density polyethylene resin. its electrical and mechanical properties are permanent and are not dependent on atmospheric conditions.

### Applications

CABELEC CA4676 conductive compound has been specially designed 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 and it is particularly suitable for foam applications.

General Information			
Additive	Carbon black		
Features	Conductivity		
	Low density		
Uses	Packaging		
	Electrical components		
	Foam		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.990	g/cm <sup>3</sup>	Internal method
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/10.0 kg	4.8	g/10 min	ISO 1133
190°C/21.6 kg	29	g/10 min	ISO 1133
190°C/5.0 kg	0.90	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, 3.00mm	11.0	MPa	ISO 527-2
Fracture, 3.00mm	13.0	MPa	ISO 527-2
Tensile Strain (Break, 3.00 mm)	390	%	ISO 527-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (0.100 mm)	2.5E+4	ohms	Internal method
Volume Resistivity (4.00 mm)	10	ohms · cm	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	75	°C	
Drying Time	2.0 - 4.0	hr	

Cylinder Zone 1 Temp.	120 - 160	°C
Cylinder Zone 3 Temp.	120 - 160	°C
Cylinder Zone 5 Temp.	120 - 160	°C
Melt Temperature	< 230	°C

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