

# CABELEC® CC6135

General Purpose Polystyrene

Cabot Corporation

## Message:

CABELEC CC6135 conductive concentrate is an electrically conductive concentrate made from conductive carbon black dispersed in a modified styrenic resin. Its electrical and mechanical properties are not dependent on atmospheric conditions. However, these properties can vary depending on the type and level of dilution resin used and the processing conditions.

Unlike standard conductive compounds, which have very limited dilution potential, CABELEC CC6135 conductive concentrate can be diluted with a high quantity of natural resin (see graph below). This allows users of CABELEC CC6135 conductive concentrate to benefit from the versatility of this concentrate and from enhanced physical properties due to higher levels of dilution resin.

## Applications

CABELEC CC6135 conductive concentrate (after dilution) can reduce the hazards of electrostatic discharge in applications such as packaging and handling of electronic components, explosive powders and pigments.

General Information			
Additive	Carbon black		
Features	Conductivity		
Uses	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.20	g/cm <sup>3</sup>	Internal method
Melt Mass-Flow Rate (MFR) (230°C/21.6 kg)	4.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Stress - MD (Break)	24.0	MPa	ISO 527-3
Tensile Elongation - MD (Break)	70	%	ISO 527-3
Elmendorf Tear Strength			ASTM D1922
MD	6.6	kN/m	ASTM D1922
TD	8.7	kN/m	ASTM D1922
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	11	kJ/m <sup>2</sup>	ISO 180
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	20	ohms	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	2.0 - 4.0	hr	
Cylinder Zone 1 Temp.	170 - 210	°C	
Cylinder Zone 3 Temp.	170 - 210	°C	
Cylinder Zone 5 Temp.	170 - 210	°C	
Melt Temperature	< 230	°C	

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