

CABELEC® CA0887

Ethylene Vinyl Acetate Copolymer

Cabot Corporation

Message:

CABELEC® 0887 is an electrically conductive compound based on carbon black and a copolymer of ethylene and vinyl acetate. It has been specially developed to give very low volume resistivity and a good flexibility.

CABELEC 0887 has been designed for the production of flexible articles such as pipes, tubes, flooring and matting, for use in application where freedom from electrostatic hazard is an important consideration. Suggested areas of applications are ordnance and ammunition works, mines, petroleum plants and other environments, for example, powder handling.

General Information	
Additive	Carbon Black
Features	Copolymer
	Electrically Conductive
	Good Flexibility
Uses	Flooring
	Mining Applications
	Piping
	Tubing
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Black
Forms	Pellets
Processing Method	Extrusion
	Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.16	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) ²			ISO 1133
190°C/10.0 kg	0.30	g/10 min	
190°C/21.6 kg	3.0	g/10 min	
Molding Shrinkage - Flow ³	1.0 to 1.3	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁴ (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ⁵			ISO 527-2
Yield	9.00	MPa	
Break	13.0	MPa	
Tensile Strain ⁶ (Break)	250	%	ISO 527-2
Flexural Modulus ⁷	220	MPa	ISO 178

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁸ (0.45 MPa, Unannealed)	49.0	°C	ISO 75-2/B
Vicat Softening Temperature ⁹	73.0	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹⁰	1.0E+2	ohms	Internal Method
Volume Resistivity ¹¹	5.0	ohms·cm	Internal Method
Extrusion	Nominal Value	Unit	
Drying Temperature	75.0	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	150 to 170	°C	
Cylinder Zone 2 Temp.	150 to 170	°C	
Cylinder Zone 3 Temp.	150 to 170	°C	
Cylinder Zone 4 Temp.	150 to 170	°C	
Cylinder Zone 5 Temp.	150 to 170	°C	
Melt Temperature	< 210	°C	
NOTE			
1.	CTM E023		
2.	CTM E005		
3.	CTM E047		
4.	CTM E030		
5.	CTM E041		
6.	CTM E041		
7.	CTM E040A		
8.	CTM E038		
9.	CTM E039		
10.	CTM E042E		
11.	CTM E043B		

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