CABELEC® CA4749

Ethylene Vinyl Acetate Copolymer

Cabot Corporation

Message:

CABELEC CA4749 electrically conductive compound is made from carbon black and a copolymer of ethylene and vinyl acetate. This product is suitable for extrusion applications where low resistivity and low flexural modulus are required.
Applications
CABELEC CA4749 conductive compound is suitable for incorporation into flexible articles such as pipes, tubes, flooring and matting and for applications where it is desirable to mitigate the hazard of electrostatic discharge, such as ordnance and ammunition works, mines and petroleum plants.

General Information			
Additive	Carbon black		
Features	Conductivity Copolymer Good flexibility		
Uses	Floor Material Piping system Pipe fittings Mining application		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.14	g/cm³	Internal method
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/10.0 kg	0.10	g/10 min	ISO 1133
190°C/21.6 kg	4.0	g/10 min	ISO 1133
Molding Shrinkage - Flow	2.0 - 2.3	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 15 sec)	51		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2
Yield	14.6	MPa	ISO 527-2
Fracture	14.6	MPa	ISO 527-2
Tensile Strain (Break)	260	%	ISO 527-2
Flexural Modulus	220	MPa	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	43.0	°C	ISO 75-2/B
Vicat Softening Temperature	75.0	°C	ISO 306/A

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	50	ohms	Internal method
Volume Resistivity	5.0	ohms·cm	Internal method

Extrusion	Nominal Value	Unit
Drying Temperature	75	°C
Drying Time	2.0 - 4.0	hr
Cylinder Zone 1 Temp.	150 - 170	°C
Cylinder Zone 3 Temp.	150 - 170	°C
Cylinder Zone 5 Temp.	150 - 170	°C
Melt Temperature	< 210	°C

Recommended distributors for this material

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