CABELEC® CA6132

High Density Polyethylene

Cabot Corporation

Message:

CABELEC® CA6132 is an electrically conductive compound based on conductive carbon black dispersed in a modified HDPE resin. Its electrical and mechanical properties are permanent and are not dependent on atmospheric conditions.
APPLICATIONS
CABELEC® CA6132 has been specially designed for transport, packaging and product handling applications where freedom from the hazard of electrostatic discharge is necessary. Examples are
in handling of explosive powders, pigments and dangerous liquids. Typical applications are jerricans, drums and other containers for the transport of dangerous goods which are required to meet strict safety requirements in a series of national and international regulations. It is also recommended for automotive applications, like conductive blow moulded fuel inlets.

General Information			
Additive	Carbon Black		
Features	Electrically Conductive		
Uses	Automotive Applications Electrical/Electronic Applications Packaging		
Appearance	Black		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	1.05	g/cm³	Internal Method
Melt Mass-Flow Rate (MFR) [2]			ISO 1133
260°C/10.0 kg	0.60	g/10 min	
260°C/21.6 kg	3.6	g/10 min	
Molding Shrinkage - Flow [3]	2.5 to 3.5	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness [4] (Shore D, 15 sec)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [5]			ISO 527-2
Yield, Compression Molded	20.6	MPa	
Break, Compression Molded	27.4	MPa	
Tensile Strain [6] (Break, Compression Molded)	920	%	ISO 527-2
Flexural Modulus [7]	838	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength [8] (23°C)	65	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [9] (1.8 MPa, Unannealed)	41.0	°C	ISO 75-2/A

Vicat Softening Temperature [10]	126	°C	ISO 306/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity [11]	2.1E+2	ohms	Internal Method
Volume Resistivity [12]	63	ohms·cm	Internal Method
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	190 to 230	°C	
Cylinder Zone 3 Temp.	190 to 230	°C	
Cylinder Zone 5 Temp.	190 to 230	°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 E044A		
9.	CTM E038		
10.	CTM E039		
11.	CTM E042E		
12.	CTM E043B		

Recommended distributors for this material

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