CABELEC® CA6141

Polycarbonate

Cabot Corporation

Message:

CABELEC® 6141 is an electrically conductive compound based on conductive carbon black dispersed in a modified polycarbonate. CABELEC® 6141 has been specially formulated for injection moulding applications. It has been developed to give a balanced property profile with permanent electrical conductivity.
CABELEC® 6141 is recommended for packaging and electronic 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.

General Information			
Additive	Carbon Black		
Features	Electrically Conductive		
Uses	Electrical/Electronic Applications Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	1.20	g/cm³	Internal Method
Melt Mass-Flow Rate (MFR) [2]			ISO 1133
260°C/10.0 kg	12	g/10 min	
260°C/2.16 kg	0.60	g/10 min	
260°C/5.0 kg	4.0	g/10 min	
Molding Shrinkage - Flow [3]	0.70 to 0.90	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness [4] (Shore D, 15 sec)	80		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [5]			ISO 527-2
Yield	54.0	MPa	
Break	47.0	MPa	
Tensile Strain [6] (Break)	24	%	ISO 527-2
Flexural Modulus [7]	2170	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength [8] (23°C)	22	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [9] (1.8 MPa, Unannealed)	121	°C	ISO 75-2/A
Vicat Softening Temperature [10]	149	°C	ISO 306/A
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity [11]	1.0E+5	ohms	Internal Method
Volume Resistivity [12]	2.0E+2	ohms·cm	Internal Method

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	2.0 to 4.0	hr
Middle Temperature	270	°C
Nozzle Temperature	290	°C
Mold Temperature	80.0	°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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