CABELEC® CA4701

Polypropylene Copolymer

Cabot Corporation

Message:

CABELEC® 4701 is an electrically conductive compound based on carbon black and a polypropylene copolymer. Its electrical and mechanical properties are permanent and are not dependent on atmospheric conditions.
CABELEC® 4701 has been specially designed for sensitive extrusion applications such as sheets and corrugated sheets for packaging electronics, where freedom from the hazard of electrostatic discharge is required.

General Information			
Additive	Carbon Black		
Features	Electrically Conductive		
Uses	Corrugated Sheet Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity [1]	1.21	g/cm³	Internal Method
Melt Mass-Flow Rate (MFR) [2]			ISO 1133
230°C/10.0 kg	10	g/10 min	
230°C/5.0 kg	2.3	g/10 min	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness [3] (Shore D, 15 sec)	68		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [4]			ISO 527-2
Yield	27.5	MPa	
Break	19.5	MPa	
Tensile Strain [5] (Break)	37	%	ISO 527-2
Flexural Modulus [6]	1110	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength [7] (23°C)	72	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [8] (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/A
Vicat Softening Temperature [9]	155	°C	ISO 306/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity			Internal Method
-- [10]	9.8E+2	ohms	

0.400 mm [11]	7.7E+2	ohms	
Volume Resistivity [12]	70	ohms·cm	Internal Method

Extrusion	Nominal Value	Unit
Drying Temperature	60.0	°C
Drying Time	2.0 to 4.0	hr
Melt Temperature	190 to 220	°C

NOTE	
1.	CTM E023
2.	CTM E005
3.	CTM E030
4.	CTM E041
5.	CTM E041
6.	CTM E040A
7.	CTM E044A
8.	CTM E038
9.	CTM E039
10.	CTM E042E
11.	CTM E042D
12.	CTM E043B

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

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