

CABELEC® CA6115

High Density Polyethylene

Cabot Corporation

Message:

CABELEC® CA6115 is a conductive compound based on conductive carbon black and glass fibre dispersed in a modified high density polyethylene resin. Its electrical and mechanical

properties are permanent and are not dependent on atmospheric conditions

APPLICATIONS

CABELEC® CA6115 is designed for injection moulding applications. It is recommended for product handling applications where freedom from the hazard of electrostatic discharge is

necessary, such as handling of explosive powders and liquids, pigments or electronic components.

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Carbon Black		
Features	Electrically Insulating		
	High Density		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.22	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) ²			ISO 1133
190°C/10.0 kg	2.0	g/10 min	
190°C/21.6 kg	11	g/10 min	
Molding Shrinkage - Flow ³	2.0 to 3.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁴ (Shore D, 15 sec)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ⁵ (Break)	36.0	MPa	ISO 527-2
Tensile Strain ⁶ (Break)	5.0	%	ISO 527-2
Flexural Modulus ⁷	2960	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁸ (23°C)	15	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁹ (1.8 MPa, Unannealed)	92.0	°C	ISO 75-2/A
Vicat Softening Temperature ¹⁰	120	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity ¹¹	1.6E+2	ohms	Internal Method
Volume Resistivity ¹²	28	ohms·cm	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	225	°C	
Middle Temperature	225	°C	
Front Temperature	225	°C	
Nozzle Temperature	255	°C	
Mold Temperature	45.0	°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		

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