

Technical Data

Product Description

CABELEC CA6115 conductive compound is made from conductive carbon black and glass fibre dispersed in a modified high density polyethylene resin. Its electrical and mechanical properties are not impacted by normal atmospheric conditions.

Applications

CABELEC CA6115 conductive compound is used for injection moulding applications. It is suitable for product handling applications where it is desirable to mitigate the hazard of electrostatic discharge, such as the handling and packaging of explosive powders and liquids, pigments or electronic components.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber
Additive	• Carbon Black
Features	• Electrically Conductive • High Density
Uses	• Electrical Parts • Packaging
Agency Ratings	• EC 1907/2006 (REACH)
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.22 g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR)		ISO 1133
190°C/10.0 kg	2.0 g/10 min	
190°C/21.6 kg	11 g/10 min	
Molding Shrinkage - Flow	0.20 to 0.30 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Break)	36.0 MPa	ISO 527-2
Tensile Strain (Break)	5.0 %	ISO 527-2
Flexural Modulus	2960 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact Strength (23°C)	15 kJ/m ²	ISO 180
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	66	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	92.0 °C	
Vicat Softening Temperature	120 °C	ISO 306/A
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.6E+2 ohms	Internal Method
Volume Resistivity	28 ohms·cm	Internal Method



Injection	Nominal Value Unit
Drying Temperature	80 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	220 °C
Middle Temperature	220 °C
Front Temperature	220 °C
Nozzle Temperature	260 °C
Mold Temperature	35 to 45 °C
Injection Rate	Slow
Screw Speed	50 to 60 rpm

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



CABELEC® CA6115

High Density Polyethylene

Cabot Corporation

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

Cabot Corporation

Boston, Boston USA

Telephone: 800-222-6745

Web: <http://www.cabot-corp.com/>

Distributor

Please contact the supplier to find a distributor for CABELEC® CA6115

