Cabot Corporation



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 (Englished) 	sh)	
Availability	 Africa & Middle East Asia Pacific	EuropeLatin 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/m²	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	



UL and the UL logo are trademarks of UL LLC © 2021. All Rights Reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

CABELEC® CA6115

High Density Polyethylene Cabot Corporation



Injection	Nominal Value Unit	
Drying Temperature	2° 08	
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.



2 of 3

UL and the UL logo are trademarks of UL LLC © 2021. All Rights Reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content. Form No. TDS-243608-en Document Created: Thursday, December 16, 2021 Added to Prospector: March 2014 Last Updated: 1/1/2/2016

CABELEC® CA6115

High Density Polyethylene Cabot Corporation

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



3 of 3

UL and the UL logo are trademarks of UL LLC © 2021. All Rights Reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content. Form No. TDS-243608-en Document Created: Thursday, December 16, 2021 Added to Prospector: March 2014 Last Updated: 1/12/2016

