CABELEC® XS6132

High Density Polyethylene

Cabot Corporation

Message:

CABELEC® XS6132 is an electrically conductive compound based on conductive carbon black dispersed in a modified high density polyethylene resin. Its electrical and mechanical properties are permanent and are not dependent on atmospheric conditions.

CABELEC® XS6132 has been specially designed for transport, packaging and product handling applications where freedom from the hazard of electrostatic discharge is necessary. Examples of use are in handling of explosive powders, pigments and dangerous liquids. Typical applications for XS6132 are jerricans, drums and other containers for the transport of dangerous goods which are required to meet strict safety requirements in a series of national and international regulations. XS6132 is also recommended for automotive applications, for example, in conductive blow moulded fuel inlets.

General Information			
Additive	Carbon Black		
Features	Electrically Conductive		
Uses	Automotive Applications		
	Containers		
	Drums		
	Jerricans		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.05	g/cm³	Internal Method
Melt Mass-Flow Rate (MFR) ²			ISO 1133
190°C/10.0 kg	0.60	g/10 min	
190°C/21.6 kg	3.6	g/10 min	
Molding Shrinkage - Flow ³	2.5 to 3.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁴ (Shore D, 15 sec)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ⁵			ISO 527-2
Yield, Compression Molded	20.6	MPa	
Break, Compression Molded	27.4	MPa	
Tensile Strain ⁶ (Break, Compression			
Molded)	920	%	ISO 527-2
Flexural Modulus ⁷	838	МРа	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength ⁸ (23°C)	65	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁹ (1.8 MPa, Unannealed)	41.0	°C	ISO 75-2/A
Vicat Softening Temperature ¹⁰	126	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹¹	2.1E+2	ohms	Internal Method
Volume Resistivity ¹²	63	ohms•cm	Internal Method
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Cylinder Zone 1 Temp.	190 to 230	°C	
Cylinder Zone 2 Temp.	190 to 230	°C	
Cylinder Zone 3 Temp.	190 to 230	°C	
Cylinder Zone 4 Temp.	190 to 230	°C	
Cylinder Zone 5 Temp.	190 to 230	°C	
Melt Temperature	< 250	°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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