

CABELEC® XS6033

Polypropylene

Cabot Corporation

Message:

CABELEC® XS6033 is an electrically conductive compound based on carbon black dispersed in a modified polypropylene resin. It is characterized by a V0 flammability rating at 3mm under UL94 conditions. The electrical properties are permanent and are not dependent on atmospheric conditions.

CABELEC® XS6033 is recommended for packaging and product handling applications where freedom from the hazard of electrostatic discharge is necessary and where flame retardant properties are requested. Examples of use are in handling explosives, chemical powders and electronic components and systems.

XS6033 has been designed for injection molding applications.

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Carbon Black		
Features	Electrically Conductive		
	Flame Retardant		
Uses	Electrical/Electronic Applications		
	Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.23	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) ²			ISO 1133
230°C/10.0 kg	20	g/10 min	
230°C/2.16 kg	0.30	g/10 min	
230°C/5.0 kg	3.0	g/10 min	
Molding Shrinkage - Flow ³	1.1 to 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness ⁴ (Shore D, 15 sec)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ⁵			ISO 527-2
Yield	19.4	MPa	
Break	16.7	MPa	
Tensile Strain ⁶ (Break)	210	%	ISO 527-2
Flexural Modulus ⁷	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ⁸ (23°C)	30	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature ⁹ (1.8 MPa, Unannealed)	45.0	°C	ISO 75-2/A
Vicat Softening Temperature ¹⁰	151	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹¹ (0.400 mm)	2.0E+2	ohms	IEC 60093
Volume Resistivity ¹²	12	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180	°C	
Middle Temperature	180	°C	
Front Temperature	180	°C	
Nozzle Temperature	200	°C	
Mold Temperature	60.0	°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.	Extruded Tape, CTM E042E		
12.	Injection molded, CTM E043B		

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