

## Carbon black added type conductive ABS pellets

### Specifications,

**ABS-B33** is a conductive antistatic modified plastic material, raw material like granules. It is a mixture of acrylonitrile-butadiene-styrene polymer and superconducting carbon black. Mainly used in electronics, integrated circuit packaging, electromagnetic wave shielding, touch pens, toys and other fields.

The main forming process of **ABS-B33** is injection molding. The products produced with ABS-B33 are clean, can be washable, and the surface resistivity can keep at the same resistance level after 16 washes. Under the optimum process conditions, the surface resistivity can reach to  $10^5 \Omega$ ,

### Appearance and the Packing details,

Appearance	Pellets
Color	Black (Not Transparent)
Added Volume	All Material
Moisture	0.4%(Water absorption rate)
Packing Details	25kg per bag /PE woven bag
Storage Condition	Keeping in a dry and ventilative warehouse

### Processing Technology,

ABS-B33 requires pre-drying with a desiccant dryer before processing. The drying conditions around  $85^\circ\text{C}$  for 3-4hours. Processing does not require special adjustments of the machine, and the processing temperature is approximately 10 degrees Celsius higher than conventional ABS.

Processing Technology	
Raw Material Drying Temperature	$80^\circ\text{C}\sim 90^\circ\text{C}$ /3~4hrs
Screw Barrel -Nozzle Temperature	$190^\circ\text{C}\sim 230^\circ\text{C}$
Model Temperature	$60^\circ\text{C}\sim 80^\circ\text{C}$
Injection Pressure	50-90MPa /can adjust by the produce goods details
Injection Speed	By Medium speed

## Product physical property,

(Item)	(Values)	(Unit)
Contraction Percentage	0.5	%
Tensile Strength	28	MPa
Tensile strain at break	18	%
Bending Strength	62	MPa
Impact Strength	9	KJ/M2
Surface Resistivity	$10^{3-5}$	$\Omega$
Melt Flow Index	11	g/10min
Hardness	116	R Sca

Note: This offer information contained in this document is based on our company current knowledge and experience, and is not to be taken as a guarantee or commitment to a particular performance description or specific application. We kind suggest before using the product, users should decide whether this new product meets the product requirements by your request.

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