

## PolyOne Stat-Tech™ OC-0307081 Black Acrylonitrile Butadiene Styrene + PC (ABS+PC)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber, for low-to-high levels of conductivity depending upon application requirements. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Stat-Tech-OC-0307081-Black-Acrylonitrile-Butadiene-Styrene-PC-ABSPC.php](http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-OC-0307081-Black-Acrylonitrile-Butadiene-Styrene-PC-ABSPC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	119 MPa	17300 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	10.3 GPa	1490 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	159 MPa	23100 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	140 °C @Thickness 6.35 mm	284 °F @Thickness 0.250 in	Unannealed; ASTM D648
Flammability, UL94	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	BKUL Listed; UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	266 - 282 °C	511 - 540 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	277 - 293 °C	531 - 559 °F	
Front Barrel Temperature	277 - 293 °C	531 - 559 °F	
Mold Temperature	71.1 - 116 °C	160 - 241 °F	

Descriptive Properties	Value	Comments
Features	Electromagnetic Shielding (EMI)	
	ESD Protection	
	Flame Retardant	
	Radio Frequency Shielding (RFI)	
Filler / Reinforcement	Nickel-Coated Carbon Fiber	
Forms	Pellets	
Generic Material	ABS+PC	
Generic Name	Acrylonitrile Butadiene Styrene + PC (ABS+PC)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	
	Business Equipment	
	Electrical Parts	
	Electrical/Electronic Applications	
	Housings	

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