

## Technical Data Sheet

# Polyfort EPP99GA02BKBLK



Polypropylene Copolymer

### Product Description

Polyfort EPP99GA02BKBLK is a Polypropylene Copolymer material and is typically used in Injection Molding applications. Features include: Copolymer, and Electrically Conductive.

<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Copolymer; Electrically Conductive
<b>Forms</b>	Pellets
<b>Appearance</b>	Black

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	0.30	g/10 min	ASTM D1238
Density - Specific Gravity	1.03	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength, (23 °C)	24.1	MPa	ASTM D638
Flexural Modulus			
(23 °C, 1% Secant)	1210	MPa	ASTM D790
(23 °C, Tangent)	1310	MPa	ASTM D790
Tensile Elongation at Break, (23 °C)	20	%	ASTM D638
Flexural Strength, (23 °C)	31.7	MPa	ASTM D790
<b>Impact</b>			
Gardner Impact, (23 °C)	22.6	J	ASTM D5420
Notched Izod Impact, (23 °C)	510	J/m	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	57.2	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	132	°C	ASTM D648
<b>Electrical</b>			
Volume Resistivity	300	ohm*cm	ASTM D257
Surface Resistivity	600	ohm	ASTM D257

Injection Parameters	Nominal Value	Units
Drying Time	2	hr
Drying Temperature	93	°C
Clamp Tonnage	2.8 to 4.1	kN/cm <sup>2</sup>
Nozzle Temperature	216 to 260	°C
Screw Speed	40 to 100	rpm
Front Temperature	221 to 260	°C
Screw L/D Ratio	20.0-1.0	
Screw Compression Ratio	2.0-1.0	
Middle Temperature	216 to 260	°C
Rear Temperature	204 to 232	°C
Back Pressure	0.138 to 0.345	MPa
Mold Temperature	27 to 66	°C