

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.

Processing Method	Injection Molding
Attribute	Copolymer; Electrically Conductive
Forms	Pellets
Appearance	Black

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.30	g/10 min	ASTM D1238
Density - Specific Gravity	1.03	g/cm ³	ASTM D792
Mechanical			
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
Impact			
Gardner Impact, (23 °C)	22.6	J	ASTM D5420
Notched Izod Impact, (23 °C)	510	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	57.2	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	132	°C	ASTM D648
Electrical			
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 ²
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