

## P & P Technology ECF-J Silver Aluminum Loaded Fluorosilicone

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

### Material Notes:

P & P Technology material reference ECF-J is a fluorosilicone elastomer with a Silver/Aluminum conductive filler. The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of -55 to +160°C. Fluorosilicone offers excellent performance over a wide temperature range with good resistance to hydrocarbons, chemicals and weathering. Its resistance to mineral based fluids is limited, but it has good splash resistance to most mineral oils and greases. Information provided by P & P Technology

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_P-P-Technology-ECF-J-Silver-Aluminum-Loaded-Fluorosilicone.php](http://www.lookpolymers.com/polymer_P-P-Technology-ECF-J-Silver-Aluminum-Loaded-Fluorosilicone.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.00 - 2.20 g/cc	2.00 - 2.20 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 65	55 - 65	ASTM D2240
Tensile Strength	1.60 MPa	232 psi	ASTM D412
Elongation at Break	>= 110 %	>= 110 %	ASTM D412
Compression Set	<= 30 % @Temperature 100 °C, Time 259000 sec	<= 30 % @Temperature 212 °F, Time 72.0 hour	ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	160 °C	320 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 0.012 ohm-cm	<= 0.012 ohm-cm	Mil-G-83528
Shielding Effectiveness	79 dB @Frequency 200000 Hz	79 dB @Frequency 200000 Hz	Mil-G-83528/Mil std 285
	102 dB @Frequency 2.00e+9 Hz	102 dB @Frequency 2.00e+9 Hz	Mil-G-83528/Mil std 285
	105 dB	105 dB	

Electrical Properties	@Frequency 1.00e+8 Metric Hz	@Frequency 1.00e+8 English Hz	Mil-G-83528/Mil std 285 Comments
	108 dB	108 dB	
	@Frequency 5.00e+8 Hz	@Frequency 5.00e+8 Hz	Mil-G-83528/Mil std 285
	110 dB	110 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	Mil-G-83528/Mil std 285

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)  
Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)  
Tel : +86 021-51131842  
Mobile : +86 13061808058  
Skype : lookpolymers  
Address : United North Road 215,Fengxian District, Shanghai City,China