



M-COR PFA is a high purity grade resin especially designed for the semiconductor industry with long-term flexibility and good stress crack resistance. It is suitable for extrusion, compression molding and transfer molding.

Typical Applications: Tubing and linings

Information provided by M-Cor Inc

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 - 2.17 g/cc	2.12 - 2.17 g/cc	ASTM D-3307
Bulk Density	>= 1.20 g/cc	>= 0.0434 lb/in ³	
Melt Flow	1.5 - 2.5 g/10 min	1.5 - 2.5 g/10 min	ASTM D-3307
Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 30.0 MPa	>= 4350 psi	ASTM D-3307
Elongation at Break	>= 300 %	>= 300 %	ASTM D-3307
Compressive Yield Strength	5.00 - 6.00 MPa	725 - 870 psi	1% Deformation; ASTM D695
Flex Crack Resistance	2.70e+6	2.70e+6	Cycles per MIT Flex; ASTM D2176
Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+18 ohm-cm	<= 1.00e+18 ohm-cm	ASTM D257
Dielectric Constant	2.1 @Frequency 1000 Hz	2.1 @Frequency 1000 Hz	ASTM D150

	2.1 @Frequency 1e+6 Hz	2.1 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	19.7 - 23.6 kV/mm @Thickness 3.17 mm	500 - 600 kV/in @Thickness 0.125 in	Short Time; ASTM D149
Dissipation Factor	0.000010 @Frequency 1000 Hz	0.000010 @Frequency 1000 Hz	ASTM D150
	0.00030 @Frequency 1e+6 Hz	0.00030 @Frequency 1e+6 Hz	ASTM D150

Thermal Properties	Metric	English	Comments
Melting Point	300 - 310 °C	572 - 590 °F	ASTM D-3307
Maximum Service Temperature, Air	260 °C	500 °F	Continuous
Minimum Service Temperature, Air	-200 °C	-328 °F	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863