

Garfilm EM6R is a Milky White film with low oligomer content ideally suited for hermetic compressors.

Sr. No.	Property	Unit	Test Method	Typical Values				
General								
1	Thickness	Micron	GPL Method	125	190	250	300	350
2	Yield	M ² /Kg	GPL Method	5.71	3.76	2.86	2.38	2.04
3	Density	gm/cc	ASTM-D-1505	1.4	1.4	1.4	1.4	1.4
4	Water Absorption (Max)	%	ASTM-D-570	0.6	0.6	0.6	0.6	0.6
5	Service Temp	°C	GPL Method	-70 to 150				
6	Oligomer Extraction (Max)	%	Reflux Method	0.7	0.7	0.7	0.7	0.7
Mechanical								
1	Tensile Strength at Break (MD/TD)	Kg/cm ²	ASTM-D-882	1900	1900	1900	1700	1700
2	Elongation (MD/TD)	%	ASTM-D-882	120	120	120	120	120
3	Slip (COF)	—	ASTM-D-1894	0.3	0.3	0.3	0.3	0.3
Optical								
1	Haze	%	ASTM-D-1003	75	85	92	92	93
Thermal								
1	Shrinkage @ 150°C 30 Minute		ASTM-D-1204					
	MD	%		1.0	1.0	1.0	1.0	1.0
	TD	%		0.4	0.4	0.4	0.4	0.4
2	Shrinkage @ 190°C 5 Minute		ASTM-D-1204					
	MD	%		3.0	3.0	3.0	3.0	3.0
	TD	%		1.0	1.0	1.0	1.0	1.0
3	Melting point	°C	DSC	255	255	255	255	255
4	Specific Heat @ 25°C	cal/g°C	-	0.32	0.32	0.32	0.32	0.32
5	Coeff of Thermal Expansion	1/K(cm/cm°C)	-	36 x 10 ⁻⁶ (MD)				
	Between 20°C & 50°C		-	23 x 10 ⁻⁶ (TD)				
Electrical								
1	Break Down Voltage (2" Brass Electrode)	KV	ASTM-D-149	15.5	18	19.5	21	22.5
2	Surface Resistivity	Ohm	ASTM-D-257	10 ¹²	10 ¹²	10 ¹²	10 ¹²	10 ¹²
3	Volume Resistivity @RT.	Ohm Cm	ASTM-D-257	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶	10 ¹⁶
4	Dielectric Constant	-	ASTM-D-1505	2.8 - 4.0				
5	Permittivity	-	IEC 250					
	23°C 50 Hz					3.26		
	23°C 1 kHz					3.24		
	23°C 10 kHz					3.21		
	0°C 50 Hz					3.26		
	50°C 50 Hz					3.27		
	100°C 50 Hz					3.35		
	150°C 50 Hz					3.65		
6	Dissipation Factor	-	IEC 250					
	23°C 50 Hz					0		
	23°C 1 kHz					0.01		
	23°C 10 kHz					0.01		
	0°C 50 Hz					0		
	50°C 50 Hz					0		
	100°C 50 Hz					0.01		
	150°C 50 Hz					0.01		