

TECHNICAL DATA											
PROPERTIES	UNITS	ASTM # / TEST METHOD	EM6								
GENERAL DATA											
Thickness	mic	GPL	36	50	75	100	125	190	250	300	350
Yield	m²/Kg	GPL	19.8	14.28	9.5	7.14	5.71	3.76	2.86	2.38	2.04
Density	gm/cc	ASTM-D-1505	1.4								
Water Absorption (MAX)	%	ASTM-D-570	0.6								
Service Temperature	Deg C	GPL	-70 to 150								
Oligomer Extraction	%	GPL	1.3								
MECHANICAL DATA											
Tensile Strength	-										
MD	Kg/cm ²	ASTM-D-882	2000	2000	2000	2000	1900	1900	1900	1700	1600
TD	Kg/cm ²	ASTM-D-882	2000	2000	2000	2000	1900	1900	1900	1700	1600
Elongation											
MD	%	ASTM-D-882	160	160	160	160	160	160	160	170	170
TD	%	ASTM-D-882	160	160	160	160	160	160	160	170	170
COF - Static (One Side to Other)	-	ASTM-D-1894	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
OPTICAL DATA											
Haze	%	ASTM-D-1003	50.0	50.0	60.0	70.0	80.0	85.0	92.0	95.0	95.0
THERMAL DATA											
Shrinkage @ 150 Deg C for 30 mins											
MD	%	ASTM-D-1204	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0
TD	%	ASTM-D-1204	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Shrinkage @ 190 Deg C for 5 mins											
MD	%	ASTM-D-1204	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
TD	%	ASTM-D-1204	1	1	1	1	1	1	1	1	1
Melting Point	Deg C	DSC	250								
Coefficient of thermal expansion between											
20 Deg C	1/K (cm/cm Deg C)		36 x 10 ⁶ (MD)								
50 Deg C	1/K (cm/cm Deg C)		36 x 10 ⁶ (MD)								
Specific Heat @ 25 Deg C	Cal/gm Deg C		0.32								
ELECTRICAL DATA											
Break Down Voltage (2" Electrode)	KV	ASTM-D-149	7.5	9.5	12.5	13.5	15.5	18.5	19.5	21.5	22.5
Surface Resistivity	Ohm	ASTM-D-257	10.12								
Volume Resistivity	Ohm/m	ASTM-D-257	10.16								
Dielectric Resistivity		ASTM-D-150	2.8 - 4.0								
Permittivity		IEC 250									
23 Deg C, 50 Hz			3.26								
23 Deg C, 1kHz			3.24								
23 Deg C, 10kHz			3.21								
0 Deg C, 50 Hz			3.26								
50 Deg C, 50 Hz			3.27								
100 Deg C, 50 Hz			3.35								
150 Deg C, 50 Hz			3.65								
Dissipation Factor		IEC 250									
23 Deg C, 50 Hz			0.002								
23 Deg C, 1kHz			0.0055								
23 Deg C, 10kHz			0.011								
0 Deg C, 50 Hz			0.004								
50 Deg C, 50 Hz			0.0015								
100 Deg C, 50 Hz			0.007								
150 Deg C, 50 Hz			0.006								
CHEMICAL RESISTANCE											
Dilute Acids & Alkalis			Good								
Concentrated Alkalis			Poor								
Concentrated Hydrochloric Acid			Fair								
Concentrated Sulphuric Acid			Poor								
Grease, Oils and Fats			Good								
Organic Solvents, Alcohol & Hydrocarbons			Good								
Ketones, Esters and Chlorinated compounds			Fairly Good								
Phenols, Cresols & Chlorinated phenols			Poor								

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