



Properties	Unit	GR	GR-H
Cross Section			
Extractable Volatiles	Content % Cyclodimethyl Siloxane	Elpacto D4~D10 <0.0010wt% D11~D20 <0.0043wt% D4~D20 <0.0043wt%	Elpacto D4~D10 <0.0010wt% D11~D20 <0.0043wt% D4~D20 <0.0043wt%
Continuous Use	°C	Elpacto -60° to +200°	Elpacto -60° to +200°
Flame Retardance	UL-94V standard	UL	VO
Dimensions Available	Thickness (mm)	0.5 ^{+0.1} 1.0 ^{+0.2} 1.5 ^{+0.2} 2.0 ^{+0.3} 2.5 ^{+0.3} 3.0 ^{+0.3} 3.5 ^{+0.3} 4.0 ^{+0.4} 5.0 ^{+0.5}	0.5 ^{+0.1} 1.0 ^{+0.2} 1.5 ^{+0.2} 2.0 ^{+0.3} 2.5 ^{+0.3} 3.0 ^{+0.3} 3.5 ^{+0.3} 4.0 ^{+0.4} 5.0 ^{+0.5}
	Width (mm)	200 maximum	200 maximum
	Length (mm)	300 maximum	300 maximum
Packaging	Standard	each sheet is placed between top and bottom film liners for die cutting handling ease.	

GR-B Series	Identifier	Test Method	0GR-B	100GR-B	150GR-B	200GR-B	250GR-B	300GR-B	350GR-B	400GR-B	500GR-B	50GR-HB	100GR-HB	150GR-HB	200GR-HB	250GR-HB	300GR-HB	350GR-HB	400GR-HB	500GR-HB		
Thickness	mm	Fujipoly	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}		
Thermal Resistance	°Cin ² /W	Fujipoly	.32	.63	.98	1.18	1.75	1.86	2.13	2.33	2.94	.37	.72	1.08	1.37	1.83	1.93	2.15	2.34	2.94		
Color	Visual	Fujipoly	Gray																			
Thermal Conductivity	watt/m-k	ASTM D5470	2.30																			
Volume Resistivity	MΩ*m	ASTM D257	1.0x10 ⁵										1.0x10 ⁶									
Withstand Voltage	kV*AC	ASTM D149	9										8									
Specific Gravity	gr/cm ³	ASTM D792	2.50										2.50									
Hardness	Shore 00	ASTM D2240	<18										<18									
Enlogation	%	ASTM D412	100										80									
Compression	Kgf/in ² @10%	Fujipoly	8.7	11.6	7.4	5.0	4.2	3.8	3.7	3.8	3.7	13.5	13.4	10.8	7.9	6.5	6.2	6.1	5.5	4.8		
	50% sustain after 1 minute		39.5	38.9	32.5	29.9	26.2	21.5	20.2	18.5	14.5	64.6	58.2	44.9	31.1	26.0	24.1	21.2	20.1	17.0		

GR-C Series	Identifier	Test Method	100GR-C	200GR-C	300GR-C	50GR-HC	100GR-HC	150GR-HC	200GR-HC	250GR-HC	300GR-HC	350GR-HC	400GR-HC	500GR-HC
Thickness	mm	Fujipoly	1.0 ^{+0.2}	2.0 ^{+0.3}	3.0 ^{+0.3}									
Thermal Resistance	°Cin ² /W	Fujipoly	1.03	1.96	2.56									
Color	Visual	Fujipoly	Black											
Thermal Conductivity	watt/m-k	ASTM D5470	1.20											
Volume Resistivity	MΩ*m	ASTM D257	1.0x10 ⁵											
Withstand Voltage	kV*AC	ASTM D149	9											
Specific Gravity	gr/cm ³	ASTM D792	2.8											
Hardness	Shore 00	ASTM D2240	<23											
Enlogation	%	ASTM D412	150											
Compression	Kgf/in ² @10%	Fujipoly	16.5	9.5	3.1									
	50% sustain after 1 minute		32.6	30.0	21.8									

GR-D Series	Identifier	Test Method	50GR-D	100GR-D	150GR-D	200GR-D	250GR-D	300GR-D	350GR-D	400GR-D	500GR-D	50GR-HD	100GR-HD	150GR-HD	200GR-HD	250GR-HD	300GR-HD	350GR-HD	400GR-HD	500GR-HD		
Thickness	mm	Fujipoly	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}		
Thermal Resistance	°Cin ² /W	Fujipoly	.39	.82	1.23	1.48	1.87	2.10	2.34	2.54	3.04	.44	.89	1.37	1.71	2.00	2.29	2.38	2.62	3.06		
Color	Visual	Fujipoly	Dark Gray										Dark Gray									
Thermal Conductivity	watt/m-k	ASTM D5470	1.50										1.50									
Volume Resistivity	MΩ*m	ASTM D257	1.0x10 ⁶										1.0x10 ⁶									
Withstand Voltage	kV*AC	ASTM D149	14										13									
Specific Gravity	gr/cm ³	ASTM D792	2.60										2.60									
Hardness	Shore 00	ASTM D2240	<18										<18									
Enlogation	%	ASTM D412	100										80									
Compression	Kgf/in ² @10%	Fujipoly	13.0	12.5	11.5	10.2	7.7	6.1	5.6	4.9	4.2	20.9	19.8	15.2	12.3	10.9	8.0	6.9	5.7	5.0		
	50% sustain after 1 minute		40.2	39.2	33.1	30.9	27.2	24.7	23.5	20.3	15.8	106.9	91.6	59.8	33.4	28.1	25.2	24.7	23.1	20.1		

XR-e Series	Identifier	Test Method	100XR-e	150XR-e	200XR-e	30XR-He*	50XR-He	100XR-He	150XR-He	200XR-He		
Thickness	mm	Fujipoly	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	0.3 ^{+0.1}	0.35 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}		
Thermal Resistance	°Cin ² /W	Fujipoly	.20	.24	.32	.11	.16	.23	.27	.35		
Color	Visual	Fujipoly	Gray					Gray				
Thermal Conductivity	watt/m-k	ASTM D5470	11.0					11.0				
Volume Resistivity	MΩ*m	ASTM D257	7.0x10 ³					7.0x10 ³				
Withstand Voltage	kV*AC	ASTM D149	11					11				
Specific Gravity	gr/cm ³	ASTM D792	3.3					3.3				
Hardness	Shore 00	ASTM D2240	64					64				
Enlogation	%	ASTM D412	40					40				
Compression	Kgf/in ² @10%	Fujipoly	8.6	10.0	9.5	2.4	5.9	10.2	10.1	11.5		
	50% sustain after 1 minute		81.5	79.3	78.7	52.5	88.	86.4	84.3	80.3		

*only sheets max. 50x50mm



Properties	Unit	GR-F	GR-HF
Cross Section			
Extractable Volatiles	Content % Cyclodimetyl Siloxane	Elpacto D4-D10 <0.0010wt% D11-D20 <0.0043wt% D4-D20 <0.0043wt%	Elpacto D4-D10 <0.0010wt% D11-D20 <0.0043wt% D4-D20 <0.0043wt%
Continuous Use	°C	Elpacto -60° to +200°	Elpacto -60° to +200°
Flame Retardance	UL-94V standard	UL VO	UL VO
Dimensions Available	Thickness (mm)	Fujipoly 0.5 ^{+0.1} 1.0 ^{+0.2} 1.5 ^{+0.2} 2.0 ^{+0.3} 2.5 ^{+0.3} 3.0 ^{+0.3} 3.5 ^{+0.3} 4.0 ^{+0.4} 5.0 ^{+0.5}	Fujipoly 0.5 ^{+0.1} 1.0 ^{+0.2} 1.5 ^{+0.2} 2.0 ^{+0.3} 2.5 ^{+0.3} 3.0 ^{+0.3} 3.5 ^{+0.3} 4.0 ^{+0.4} 5.0 ^{+0.5}
	Width (mm)	Fujipoly 200 maximum	Fujipoly 180 maximum 180 maximum 180 maximum
	Length (mm)	Fujipoly 300 maximum	Fujipoly 280 maximum 280 maximum 280 maximum
Packaging	Standard	Fujipoly <i>Each Sheet is placed between top and bottom film liners for die cutting handling ease.</i>	Fujipoly <i>Each Sheet is placed between top and bottom film liners for die cutting handling ease.</i>

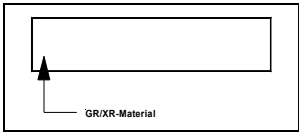
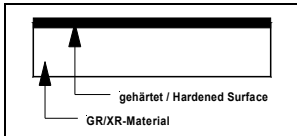
GR-B Series	Identifier	Test Method	0GR-FB	100GR-FB	150GR-FB	200GR-FB	250GR-FB	300GR-FB	350GR-FB	400GR-FB	500GR-FB	50GR-HFB	100GR-HFB	150GR-HFB	200GR-HFB	250GR-HFB	300GR-HFB	350GR-HFB	400GR-HFB	500GR-HFB
Thickness	mm	Fujipoly	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}
Thermal Resistance	°Cin ² /W	Fujipoly	.32	.73	1.07	1.43	1.75	1.89	2.20	2.45	2.96	.46	.86	1.23	1.51	1.85	2.11	2.23	2.47	3.10
Color	Visual	Fujipoly	Gray																	
Thermal Conductivity	watt/m-k	ASTM D5470	2.30																	
Volume Resistivity	MΩ*cm	ASTM D257	1.0x10 ⁸																	
Withstand Voltage	kV*AC	ASTM D149	7																	
Specific Gravity	gr/cm ³	ASTM D792	2.50																	
Hardness	Shore 00	ASTM D2240	<18																	
Enlogation	%	ASTM D412	60																	
Compression	Kgf/in ² @10%	Fujipoly	11.0	14.5	13.8	10.3	8.0	6.0	4.5	3.9	2.3	16.0	15.5	14.2	11.2	10.8	9.9	8.9	7.9	7.1
	50%	Fujipoly	84.9	69.2	45.2	29.2	24.3	18.7	17.3	16.7	16.5	116.4	93.5	68.7	45.2	35.2	32.5	30.2	29.2	24.2

GR-C Series	Identifier	Test Method	50GR-FC	100GR-FC	150GR-FC	200GR-FC	250GR-FC	300GR-FC	350GR-FC	400GR-FC	500GR-FC	50GR-HFC	100GR-HFC	150GR-HFC	200GR-HFC	250GR-HFC	300GR-HFC	350GR-HFC	400GR-HFC	500GR-HFC		
Thickness	mm	Fujipoly																				
Thermal Resistance	°Cin ² /W	Fujipoly																				
Color	Visual	Fujipoly																				
Thermal Conductivity	watt/m-k	ASTM D5470																				
Volume Resistivity	MΩ*cm	ASTM D257	Not Available At This Time										Not Available At This Time									
Withstand Voltage	kV*AC	ASTM D149																				
Specific Gravity	gr/cm ³	ASTM D792																				
Hardness	Shore 00	ASTM D2240																				
Enlogation	%	ASTM D412																				
Compression	Kgf/in ² @10%	Fujipoly																				
	50%	Fujipoly																				

GR-D Series	Identifier	Test Method	50GR-FD	100GR-FD	150GR-FD	200GR-FD	250GR-FD	300GR-FD	350GR-FD	400GR-FD	500GR-FD	50GR-HFD	100GR-HFD	150GR-HFD	200GR-HFD	250GR-HFD	300GR-HFD	350GR-HFD	400GR-HFD	500GR-HFD		
Thickness	mm	Fujipoly	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	3.5 ^{+0.3}	4.0 ^{+0.4}	5.0 ^{+0.5}		
Thermal Resistance	°Cin ² /W	Fujipoly	0.42	0.83	1.35	1.62	2.03	2.32	2.38	2.64	2.91	0.48	0.90	1.43	1.69	2.15	2.43	2.49	2.66	3.11		
Color	Visual	Fujipoly	Light Gray										Light Gray									
Thermal Conductivity	watt/m-k	ASTM D5470	1.50										1.50									
Volume Resistivity	MΩ*cm	ASTM D257	1.0x10 ⁸										1.0x10 ⁸									
Withstand Voltage	kV*AC	ASTM D149	19										8									
Specific Gravity	gr/cm ³	ASTM D792	2.60										2.60									
Hardness	Shore 00	ASTM D2240	<18										<18									
Enlogation	%	ASTM D412	60										60									
Compression	Kgf/in ² @10%	Fujipoly	17.0	15.2	15.4	11.2	8.2	7.3	6.5	5.4	4.8	22.5	20.7	20.1	15.7	14.8	12.1	9.8	9.0	7.1		
	50%	Fujipoly	96.4	71.6	49.9	31.2	25.8	20.8	18.9	18.2	17.9	119.8	102.9	78.2	50.8	41.7	38.9	32.2	32.1	25.2		

XR-e Series	Identifier	Test Method	50GR-XR	100GR-XR	150GR-XR	200GR-XR	250GR-XR	300GR-XR	350GR-XR	400GR-XR	500GR-XR	50GR-HXR	100GR-HXR	150GR-HXR	200GR-HXR	250GR-HXR	300GR-HXR	350GR-HXR	400GR-HXR	500GR-HXR		
Thickness	mm	Fujipoly																				
Thermal Resistance	°Cin ² /W	Fujipoly																				
Color	Visual	Fujipoly																				
Thermal Conductivity	watt/m-k	ASTM D5470																				
Volume Resistivity	MΩ*cm	ASTM D257	Not Available At This Time										Not Available At This Time									
Withstand Voltage	kV*AC	ASTM D149																				
Specific Gravity	gr/cm ³	ASTM D792																				
Hardness	Shore 00	ASTM D2240																				
Enlogation	%	ASTM D412																				
Compression	Kgf/in ² @10%	Fujipoly																				
	50%	Fujipoly																				



Properties	Unit	GR / XR	GR-H / XR-H
Cross Section			
Extractable Volatiles	Content % Cyclodimethyl Siloxane	Elpacto D4-D10 <0.0010wt% D11-D20 <0.0043wt% D4-D20 <0.0043wt%	Elpacto D4-D10 <0.0010wt% D11-D20 <0.0043wt% D4-D20 <0.0043wt%
Continuous Use	°C	Elpacto -60° to +200°	Elpacto -60° to +200°
Flame Retardance	UL-94V standard	UL	UL
Dimensions Available	Thickness (mm)	VO 0.5 ^{+0.1} 1.0 ^{+0.2} 1.5 ^{+0.2} 2.0 ^{+0.3} 2.5 ^{+0.3} 3.0 ^{+0.3} 3.5 ^{+0.3} 4.0 ^{+0.4} 5.0 ^{+0.5}	VO 0.5 ^{+0.1} 1.0 ^{+0.2} 1.5 ^{+0.2} 2.0 ^{+0.3} 2.5 ^{+0.3} 3.0 ^{+0.3} 3.5 ^{+0.3} 4.0 ^{+0.4} 5.0 ^{+0.5}
	Width (mm)	200 maximum	200 maximum
	Length (mm)	300 maximum	300 maximum
Packaging	Standard	each sheet is placed between top and bottom film liners for die cutting handling ease.	

GR-m Series	Identifier	Test Method	50GR-m	100GR-m	150GR-m	200GR-m	250GR-m	300GR-m	50GR-Hm	100GR-Hm	150GR-Hm	200GR-Hm	250GR-Hm	300GR-Hm
Thickness	mm	Elpacto	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}	0.5 ^{+0.1}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	2.5 ^{+0.3}	3.0 ^{+0.3}
Thermal Resistance	°Cin ² /W	Elpacto	.21	.32	.48	.64	.75	.84	.27	.45	.58	.75	.84	.92
Color	Visual	Elpacto	Blue/Yellow						Blue/Yellow					
Thermal Conductivity	watt/m-k	ASTM D5470	6.0						6.0					
Volume Resistivity	MΩm	ASTM D257	1.3x10 ⁵						1.0x10 ⁵					
Withstand Voltage	kVAC	ASTM D149	13						13					
Specific Gravity	gr/cm ³	ASTM D792	3.2						3.2					
Hardness	Shore 00	ASTM D2240	52						52					
Enlogation	%	ASTM D412	80						80					
Compression	Kgf/in ² @10%	Elpacto	8.5	10.7	8.4	8.1	7.0	5.7	13.9	15.6	14.6	9.3	9.5	8.3
	50% sustain after 1 minute		53.7	50.6	46.5	39.5	38.5	30.2	76.6	74.6	88.8	54.2	50.3	42.5

XR-m Series	Identifier	Test Method	30XR-m	50XR-m	100XR-Hm	150XR-Hm	200XR-Hm	
Thickness	mm	Elpacto	0.5 ^{+0.1}	1.0 ^{+0.2}	1.0 ^{+0.2}	1.5 ^{+0.2}	2.0 ^{+0.3}	
Thermal Resistance	°Cin ² /W	Elpacto	0.07	0.10	.14	.19	.24	
Color	Visual	Elpacto	Gray				Gray	
Thermal Conductivity	watt/m-k	ASTM D5470	17.0				17.0	
Volume Resistivity	MΩm	ASTM D257	1x10 ⁵				1x10 ⁵	
Withstand Voltage	kVAC	ASTM D149	0.5				15	
Specific Gravity	gr/cm ³	ASTM D792	3.22.50				3.2	
Hardness	Shore 00	ASTM D2240	80				80	
Enlogation	%	ASTM D412	35				35	
Compression	Kgf/in ² @10%	Elpacto	4.0	4.0	10.0	18.0	16.0	
	50% sustain after 1 minute		63.0	90.0	66.0	55.0	44.0	