



Makrofol® Bayfol®

Film Selector Guide
for Polycarbonate Based Films



Grade

GRAPHIC FILMS	5 mil 125 µm	7 mil 175 µm	10 mil 250 µm	12 mil 300 µm	15 mil 375 µm	20 mil 500 µm	25 mil 635 µm	30 mil 750 µm	40 mil 1000 µm
Makrofol® DE 1-1 000000 Automotive, labels, nameplates, packaging, printed graphics	●	●	●	●	●	●	●	●	
Makrofol® DE 1-4 000000 Automotive, labels, nameplates, printed graphics	●	●	●	●	●	●	●	●	
Makrofol® DE 6-2 000000 Automotive, labels, nameplates, packaging	●	●	●	●	●	●			
Makrofol® DE 7-2 000000 Automotive, labels, nameplates, packaging	●	●	●	●	●	●	●	●	
Makrofol® DE 7-2 960004 Opaque Black						●	●	●	●
Makrofol® BL 2-4 820816 Automotive, mobility, optimized for die cutting			●	●	●				
Makrofol® DE 1-4 020209 Translucent white, trade show displays, point of purchase graphics, menu boards			●		●	●			
Makrofol® DE 1-4 020204 Opaque white, trade show displays, point of purchase graphics, menu boards			●		●	●			
Bayfol® CR 6-2 000000 Automotive, labels, membrane switch, nameplates, telecom, hand held devices	●	●	●	●	●				
Bayfol® CR210 1-1 000000 Automotive, labels, nameplates			●	●	●	●			
Bayfol® CR210 1-4 000000 Automotive, labels, nameplates			●	●	●	●			
LIGHT MANAGEMENT FILMS	5 mil 125 µm	7 mil 175 µm	10 mil 250 µm	12 mil 300 µm	15 mil 375 µm	20 mil 500 µm	25 mil 635 µm	30 mil 750 µm	40 mil 1000 µm
Makrofol® LM228 2-4 160005 Diffuser for automotive lighting requiring AMECA materials				●		●			
Makrofol® LM296 1-2 760125 Black panel, 25% Light Transmission						●			
Makrofol® LM296 1-2 760135 Black panel, 35% Light Transmission						●			
Makrofol® LM296 1-2 760150 Black panel, 50% Light Transmission						●			
Makrofol® LM296 1-2 760165 Black panel, 65% Light Transmission					●				
Makrofol® LM296 1-2 760250 Black panel, 50% Light Transmission								●	
Makrofol® LM296 1-2 760275 Black panel, 75% Light Transmission						●			
Makrofol® LM296 1-2 760350 Black panel, 50% Light Transmission					●				
Makrofol® LM309 2-4 160004 LED and light diffuser				●		●			
Makrofol® LM322 2-4 160006 LED and light diffuser				●					
Makrofol® LM903 1-4 160008 LED boards, reflectors				●		●			
Makrofol® LM905 2-4 160009 LED and light diffuser				●		●			
Makrofol® LM914 1-2 742055 Instrument cluster and display covers								●	
Makrofol® UV503 1-1 060004 For coated diffusers requiring AMECA listing			●			●		●	
Makrofol® UV503 1-4 060004 Diffuser for automotive lighting requiring AMECA materials			●			●		●	
Makrofol® UV503 9-2 060004 Diffuser for automotive lighting requiring AMECA materials			●			●		●	
SCRATCH, WEATHER, AND CHEMICAL RESISTANT FILMS	5 mil 125 µm	7 mil 175 µm	10 mil 250 µm	12 mil 300 µm	15 mil 375 µm	20 mil 500 µm	25 mil 635 µm	30 mil 750 µm	80 mil 2000 µm
Bayfol® UV506 7-2 030002 Acrylic capped polycarbonate film, printed graphics						●	●	●	
Makrofol® UV508 7-2 030003 Outdoor signage, excellent weather, chemical, and graffiti resistance.					●	●		●	
Makrofol® SR906 1-1 040009 Automotive, appliances, labels, nameplates, display covers		●	●		●	●	●		
Makrofol® SR622 1-1 040001 Automotive, appliances, labels, nameplates, display covers									●
OPTICAL GRADE FILMS	5 mil 125 µm	7 mil 175 µm	10 mil 250 µm	12 mil 300 µm	15 mil 375 µm	20 mil 500 µm	25 mil 635 µm	30 mil 750 µm	40 mil 1000 µm
Makrofol® OF920 1-1 064001 Coated films substrates, display covers, HUD			●		●	●			
Makrofol® OF923 1-1 064101 Coated films substrates, display covers, HUD			●		●				
Makrofol® OF934 1-1 044001 Coated films substrates, display covers, HUD			●		●	●	●		
SENSOR TRANSPARENT FILMS	5 mil 125 µm	7 mil 175 µm	10 mil 250 µm	12 mil 300 µm	15 mil 375 µm	20 mil 500 µm	25 mil 635 µm	30 mil 750 µm	40 mil 1000 µm
Makrofol® ST342 1-1 940002 Automotive, sensors (in particular for LiDAR)			●						
Makrofol® ST352 1-1 940003 Automotive, sensors (in particular for LiDAR)					●				
Makrofol® ST352 1-1 940004 Automotive, sensors (in particular for LiDAR)						●			
Makrofol® ST362 1-1 940005 Automotive, sensors (in particular for LiDAR). Most opaque in the visible light range.			●						
Makrofol® ST362 1-1 940006 Automotive, sensors (in particular for LiDAR). Most opaque in the visible light range.					●				
Makrofol® ST362 1-1 940007 Automotive, sensors (in particular for LiDAR). Most opaque in the visible light range.						●			
ELECTROPLATING FILMS	5 mil 125 µm	7 mil 175 µm	10 mil 250 µm	12 mil 300 µm	15 mil 375 µm	20 mil 500 µm	25 mil 635 µm	30 mil 750 µm	40 mil 1000 µm
Makrofol® EP355 1-2 140017 Galvanized surfaces and parts			●						
FLAME RETARDANT FILMS	5 mil 125 µm	7 mil 175 µm	10 mil 250 µm	12 mil 300 µm	15 mil 375 µm	20 mil 500 µm	25 mil 635 µm	30 mil 750 µm	40 mil 1000 µm
Makrofol® FR 7-2 000000 Spacers, trade show displays, UL 94 V-0 at 10 mil			●	●	●	●			
Makrofol® FR344 2-4 060035 Automotive, battery cell carrier, electronics, construction, transportation			●	●	●	●			

Additional custom colors, textures, and gauges may be available upon request. Not all products available through distribution outlets.

Grade	1st Surface	2nd Surface	Color	Descriptions
GRAPHIC FILMS				
Makrofol® DE 1-1 000000	gloss	gloss	colorless transparent	Standard grade of polycarbonate film, masking provided on both sides
Makrofol® DE 1-4 000000	gloss	fine matte	colorless	Controlled low birefringence, no masking required on matte side
Makrofol® DE 6-2 000000	fine velvet	very fine matte	colorless	Printable fine velvet surface
Makrofol® DE 7-2 000000	velvet	very fine matte	colorless	Printable velvet surface
Makrofol® DE 7-2 960004	velvet	very fine matte	opaque black	Opaque black, light blocking
Makrofol® BL 2-4 820816	very fine matte	fine matte	colorless	Optimized for die cutting
Makrofol® DE 1-4 020209	gloss	fine matte	translucent white	Translucent White
Makrofol® DE 1-4 020204	gloss	fine matte	translucent white	Translucent, light blocking
Bayfol® CR 6-2 000000	fine velvet	very fine matte	colorless	PC/PBT blend, high actuation life, better chemical resistance than DE
Bayfol® CR210 1-1 000000	gloss	gloss	colorless transparent	PC/CoPolyester blend, easy forming
Bayfol® CR210 1-4 000000	gloss	fine matte	colorless	PC/CoPolyester blend, easy forming
LIGHT MANAGEMENT FILMS				
Makrofol® LM228 2-4 160005	very fine matte	fine matte	translucent white	Diffuser for automotive lighting requiring AMECA materials
Makrofol® LM296 1-2 760125	gloss	very fine matte	grey	Black panel, 25% Light Transmission
Makrofol® LM296 1-2 760135	gloss	very fine matte	grey	Black panel, 35% Light Transmission
Makrofol® LM296 1-2 760150	gloss	very fine matte	grey	Black panel, 50% Light Transmission
Makrofol® LM296 1-2 760165	gloss	very fine matte	grey	Black panel, 65% Light Transmission
Makrofol® LM296 1-2 760250	gloss	very fine matte	grey	Black panel, 50% Light Transmission
Makrofol® LM296 1-2 760275	gloss	very fine matte	grey	Black panel, 75% Light Transmission
Makrofol® LM296 1-2 760350	gloss	very fine matte	grey	Black panel, 50% Light Transmission
Makrofol® LM309 2-4 160004	very fine matte	fine matte	translucent white	Diffuser
Makrofol® LM322 2-4 160006	very fine matte	fine matte	translucent white	Diffuser
Makrofol® LM903 1-4 160008	gloss	fine matte	reflective white	≥95% reflective white
Makrofol® LM905 2-4 160009	very fine matte	fine matte	translucent white	Diffuser
Makrofol® LM914 1-2 742055	gloss	very fine matte	grey	Acrylic capped Black Panel, 55% Light Transmission
Makrofol® UV503 1-1 060004	gloss	gloss	colorless transparent	For coated diffusers requiring AMECA materials
Makrofol® UV503 1-4 060004	gloss	fine matte	colorless	Diffuser for automotive lighting requiring AMECA materials
Makrofol® UV503 9-2 060004	rough velvet	very fine matte	colorless	Diffuser for automotive lighting requiring AMECA materials
SCRATCH, WEATHER, AND CHEMICAL RESISTANT FILMS				
Bayfol® UV506 7-2 030002	velvet	very fine matte	colorless	Acrylic capped polycarbonate film
Makrofol® UV508 7-2 030003	velvet	very fine matte	colorless	Special PVF capped polycarbonate film for outdoor signage, excellent weathering, chemical, and graffiti resistance
Makrofol® SR906 1-1 040009	gloss	gloss	colorless transparent	Acrylic capped Polycarbonate with UV resistance, also available as 7-2
Makrofol® SR622 1-1 040001	gloss	gloss	colorless transparent	Acrylic capped Polycarbonate sheet with optical quality
OPTICAL GRADE FILMS				
Makrofol® OF920 1-1 064001	gloss	gloss	colorless transparent	Polycarbonate with superior quality vs. standard grades
Makrofol® OF923 1-1 064101	gloss	gloss	colorless transparent	Polycarbonate with superior quality, controlled birefringence
Makrofol® OF934 1-1 044001	gloss	gloss	colorless transparent	Acrylic capped Polycarbonate with UV resistance, superior quality
SENSOR TRANSPARENT FILMS				
Makrofol® ST342 1-1 940002	gloss	gloss	black	Near infrared transparent film, VIS transmission <1%, easy forming
Makrofol® ST352 1-1 940003	gloss	gloss	black	Near infrared transparent film, VIS transmission around 5%
Makrofol® ST352 1-1 940004	gloss	gloss	black	Near infrared transparent film, VIS transmission around 5%
Makrofol® ST362 1-1 940005	gloss	gloss	black	High light transmission in the near-infrared and a very low light transmission in the visible range
Makrofol® ST362 1-1 940006	gloss	gloss	black	High light transmission in the near-infrared and a very low light transmission in the visible range
Makrofol® ST362 1-1 940007	gloss	gloss	black	High light transmission in the near-infrared and a very low light transmission in the visible range
ELECTROPLATING FILMS				
Makrofol® EP355 1-2 140017	gloss	very fine matte	colorless	Polycarbonate film capped with ABS on both sides
FLAME RETARDANT FILMS				
Makrofol® FR 7-2 000000	velvet	very fine matte	colorless	Flame retardant, UL 94 V-0 at 10 mil, brominated
Makrofol® FR344 2-4 060035	very fine matte	fine matte	colorless	Flame retardant, UL94 V-0 at 10 mil, halogen-free, easy forming





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¹Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

Edition: 2023 · Printed in Germany