



[www.egrgroup.com](http://www.egrgroup.com)

# EXTRUDED SHEETING CAPABILITIES



# THE EGR GROUP

Founded in 1973, the EGR Group of companies forms a privately owned multinational corporation that today employs more than 1,000 people worldwide.

The Group consists of four strategic divisions – Plastic Sheet Extrusion, Acrylic Automotive Products, Industrial and Automotive Thermoformed Products, and Point of Purchase Displays.

The Corporation's world headquarters and six manufacturing plants are located in Brisbane, Australia; with regional headquarters in North America and the United Kingdom.

Together with its wholly owned subsidiaries, EGR services a portfolio of international distributors and some 50 OEM multinationals located in more than 40 countries around the world.



*Warehouse Facilities in North America*



## Plastic Sheet Extrusion

EGR manufactures the highest quality rigid plastic sheeting in General Purpose / Impact Modified / High Heat PMMA, PC Standard and PC UV protected 2 sides, General Purpose and High Heat PETG, Standard ABS, High Heat ABS, PMMA capped ABS, ASA capped ABS, ASA, PC/ABS.



## Acrylic Automotive Products

EGR is the preferred designer and manufacturer of acrylic automotive accessories to nearly 50 OEMs around the world. The product range includes Bonnet Protectors, Head Light Protectors and Weathershields.



## Industrial and Automotive Thermoformed Products

EGR combines the world's best thermoforming practices by integrating European and USA forming technologies. The Corporation designs and manufactures a wide range of thermoformed products that include Body Kits, Rear Wheel Covers, Spoilers and Tonneau Covers. As well, EGR manufactures returnable and recyclable packaging applications including dunnage, pallet systems and bulk packaging methods.



## Point of Purchase Displays

EGR is Australia's largest designer and manufacturer of permanent and semi-permanent Point of Purchase display systems. It services some of the world's most famous brand names.

# EGR EXTRUSION DIVISION

## Extrusion History

Prior to 1999, EGR imported sheet from the USA and Asia. Sheets of high quality and consistency meeting EGR's technical requirements could not be sourced and the decision was made to commission an Extrusion facility. The best technology available was purchased, designed specifically to achieve our quality goals. EGR successfully produced high quality sheets to satisfy internal requirements and developed a strong polymer portfolio and reputation in the Australia solid sheet market.

In 2002, EGR commenced significant Asian OEM sheet contracts in the High Optical PMMA market. EGR was the first company outside of Asia to manufacture PMMA for LCD monitor Light Guide Panels. In October of that year, commissioning of EGR's second optical extrusion line commenced. This line brought far superior clean room conditions, the ability to extrude and co-extrude to a width of 2520mm (99"). EGR has continued to increase product flexibility with the introduction of reels / spools and have diversified into thin gauge PETG.

EGR's internal requirements have required a diverse and technically difficult polymer portfolio. EGR's strengths are centred around maximum flexibility and technical excellence. These factors and consistently high quality are invaluable in OEM automotive and rapidly changing export markets.

EGR uses propriety processing and testing techniques to ensure that the products produced are fit for application. EGR's testing facilities include microscopic analysis (co-extruded layer distribution and optical PMMA warpage), and transmissive and reflective spectrophotometry. Although the majority of EGR's test methods are standard for sheet extruders, proprietary test methods have been developed in-house in close co-operation with our customers to guarantee satisfaction.

EGR is a ISO9001/TS16949/ISO14001 independently certified company.



# PRODUCTS AND APPLICATIONS



## PMMA

- EGR is currently supplying color-matched PMMA sheets in corporate colors for a range of applications.
- LED capable signage grade PMMA is currently produced with diffusive characteristics to eliminate 'hot-spotting'. Current products are successfully used in conjunction with LED's supplied by one of the leaders in US market. EGR is currently working with signage manufacturer's to assist in the seamless transition from current LED technology to brighter and more efficient models.
- Over the past five years EGR has developed a strong reputation in the Asian market as a high quality supplier of thick gauge optical grade PMMA for application in LCD as a Light Guide Panel.
- EGR's optical experience has opened doors in areas such as mirrorising and edge lit engraved advertising.



## POLYCARBONATE

- EGR is a current polycarbonate supplier to the Australian and New Zealand sheet market in General Purpose (GP), single (UV1) and double-sided UV protection (UV2).
- UV protection is achieved through a co-extruded layer of which thickness distribution is strictly controlled. Start of the art extrusion equipment guarantees consistent quality.
- EGR's UV1 Polycarbonate is currently screen-printed and used in vending machine applications.



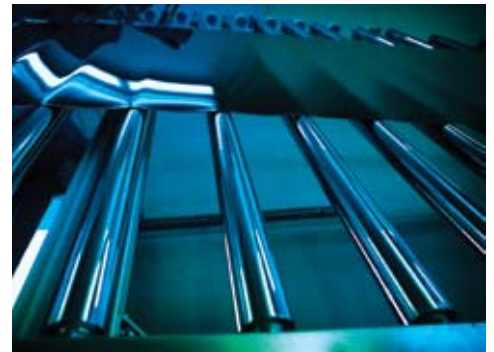
## PETG

- EGR's machinery and processing techniques ensure very high preservation of intrinsic viscosity (IV) ensuring highly consistent sheet properties. This characteristic is attractive for fabricators that employ cold bending and is an important factor when avoiding environmental stress cracking.
- EGR's PETG was developed with laser cutting in mind and therefore special film was developed for this application.
- EGR's high quality machinery produces PETG sheets of excellent surface appearance.



## ABS

- EGR extrudes a variety of ABS grades up to 100 inch wide.
- EGR's strength in ABS is in co-extrusion.
- Co-extrusions are available from approx. 2% of the total sheet thickness, up to approx. 20%.
- EGR currently co-extrudes on ABS in the following formats, PMMA capped ABS (B-A-A or B-A-B) and ASA capped ABS (B-A-A).
- EGR's PMMA capped ABS sheets can be produced in low gloss and impact modified formats. Multiple textures are available.
- EGR currently supplies co-extruded ABS into US automotive markets as unpinned fender flares and ASA capped ABS into the Australian marine industry.



## PCABS

- EGR currently extrudes specially formulated PCABS resin which allows A1 automotive quality spray painted finishes to be achieved without priming.
- Currently a Tier one on-line OEM automotive supplier in the Australian market.







## REELS / SPOOLS

- EGR has the ability to extrude sheet and wind the finished product onto reels or spools up to approx. 160m (524ft) in length, and up to a width of 2520mm (99").
- EGR currently exports Impact Modified PMMA reels into the Asian market.



# CAPABILITIES

POLYMER	STANDARD GAUGES						STANDARD WIDTHS				
	Gauges within the range of values below are available on request						Widths within the range of values below are available on request				
	0.75mm > 1.5mm (0.030" > 0.060")	1.5mm > 2.5mm (0.060" > 0.101")	2.5mm > 3mm (0.099" > 0.118")	3mm > 6mm (0.118" > 0.236")	6mm > 10mm (0.236" > 0.394")	12mm (0.472")	1220mm (4')	1300mm (4' 3", 51")	1830mm (6')	2050mm (6' 9", 81")	2520mm (8' 3", 99")
<b>PMMA</b>											
GP (General Purpose)										2	3
IM (Impact Modified)										2	3
HH (High Heat)										2	3
<b>PC</b>											
GP (General Purpose)						1				2	3
UV1 (1 side UV Protected)											3
UV2 (2 side UV Protected)						1				2	3
<b>ABS</b>											
Mono layer										2	3
PMMA capped										2	3
ASA capped										2	
<b>PC / ABS</b>											
Mono layer										2	3
<b>ASA</b>											
Mono layer										2	3
<b>PETG</b>											
GP (General Purpose)						1				2	3
UV1 (1 side UV Protected)						1				2	3
UV2 (2 side UV Protected)						1				2	3

Legend:		Product Available
		Available on request - Please contact EGR
		Product currently not available

LENGTHS			MASKING			COLOR		TEXTURE		
Lengths within the range of values below are available on request			THERMOFORMABLE PE	WATER SOLUBLE PAPER	PRESSURE SENSITIVE PAPER	Custom colors can be matched and produced on request.		SMOOTH	SAND BLASTED / STIPPLED (Fine) Maximum width 2050mm	HAIRCELL (Heavy) Maximum width 2050mm
700mm > 4000mm (2' 4" > 13' 1")	4000mm + (13' 1" +)	REELS (2mm - 6mm Gauge only)				CLEAR	COLOR			
4				6	7					
4		5		6	7					
4				6	7					
4		5			7					
4		5			7					
4		5			7					
4		5								
4		5								
4		5								
4		5								
4		5								
4		5								
4		5								
4		5								



- Note 1: Sheets with a thickness greater than 10mm currently have a maximum width of 1220mm.
- Note 2: Gauges below 1.5mm cannot be produced at sheet width greater than 1220mm.
- Note 3: Gauges below 3mm cannot be produced at sheet width greater than 2050mm.
- Note 4: Minimum length is dependent on gauge. Gauges between 0.75mm and 1.5mm cannot be produced in lengths less than 1830mm. Gauges of 1mm and below, minimum length available is 2440mm.
- Note 5: Maximum thickness of sheet on reel depends on the final application.
- Note 6: Water Soluble Paper is only available on sheet widths less than 1310mm.
- Note 7: Pressure Sensitive Paper is only available on sheet widths less than 1910mm.

EGR North America  
4000 East Greystone Drive  
Ontario, California 91761, U.S.A

T: (909) 923-7075  
F: (909) 923-0945

Primary Contact:  
David Camerlengo  
dcamerle@egrusa.com

EGR Australia  
53 Coulson St, Wacol, Brisbane,  
Queensland 4076, Australia

T: +61 7 3879 3577  
F: +61 7 3879 3862

Primary Contact:  
Iain Whyley  
iwhyley@egr.com.au



*The Shape of the Future*

[www.egrgroup.com](http://www.egrgroup.com)