

ELECTRO POLYMERS INDUSTRIES

ELPOL[®]



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**ONE STOP
SOLUTION FOR
HIGH PERFORMANCE
ENGINEERED POLYMERS**

ABOUT US

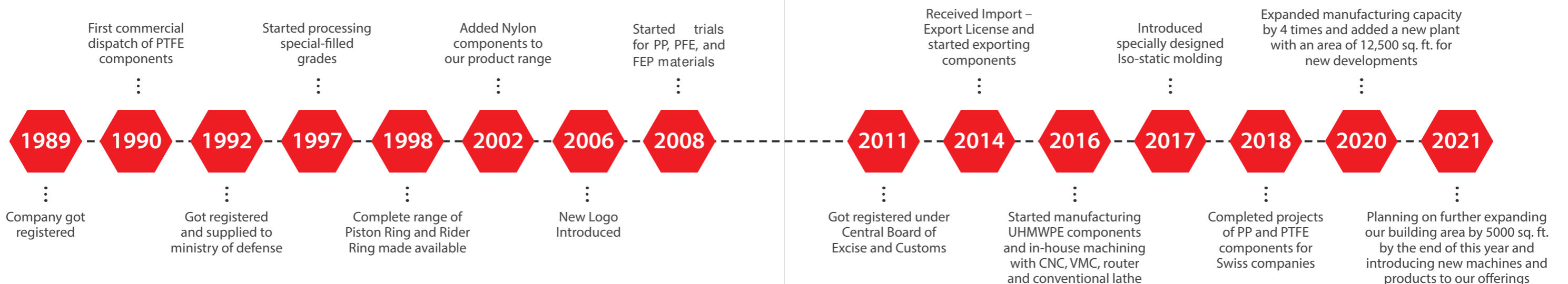
Electro Polymers Industries was founded in 1989 in Ahmedabad, Gujarat. **ELPOL's mission** is to design, develop, manufacture and market high performance engineered plastic components to diversified industries. We ensure to reach our mission as well as stay intact to our values, which has helped us grow in the field of thermoplastics for over 30 years now.

Our mission is to provide value to our clients by blending suitable applications via innovative technologies and deliver cost-effective yet high-precision polymer components for application that meet exceptional performance. We ensure to follow sound business practices, cost-effective and value based operating processes, proven technologies, and ethical business relationships. To make certain that we reach our mission and follow our values effectively, we have invested in building a wonderful team of trained and customer-oriented people. Our Vision is to achieve extraordinary results for our customers and build satisfying careers for our employees that eventually build a better place for many.

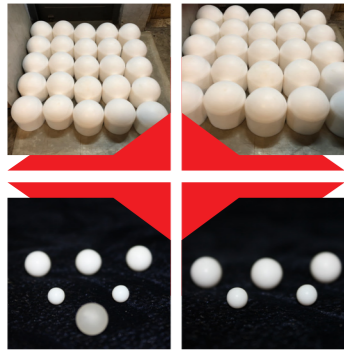
Our business philosophy is based on our core values – Integrity, Excellence, Innovation, and Passion for results and precise execution. Our business philosophy strongly supports the belief that our growth and success is based on the growth and success of our clients; and in order to achieve that we ensure to incorporate our core values in every facet of our business on daily basis.

Over these years, ELPOL has successfully built a reputation of reliability, exceptional customer service and the assurance to deliver quality products on time and within budget. Market leaders from various industries such as irrigation industry, ordnance, glass industry, aerospace industry, boiler industry, chemical industry, and many more have chosen ELPOL as a source of their critical OEM components' requirements.

We succeed by earning the pride of our employees, the satisfaction of our customers and the respect and trust of those who associate with it.

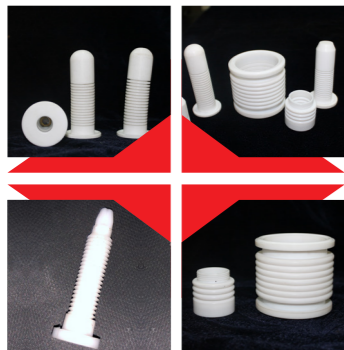
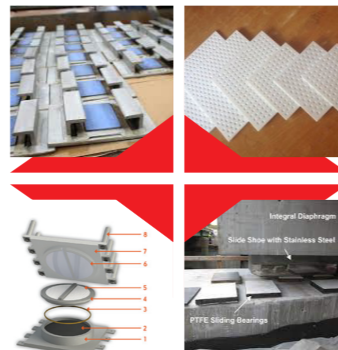


PTFE



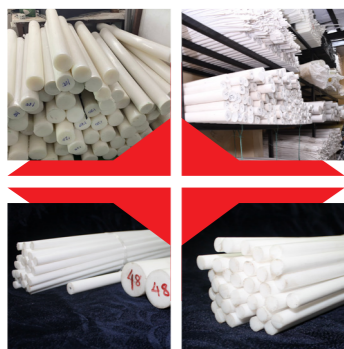
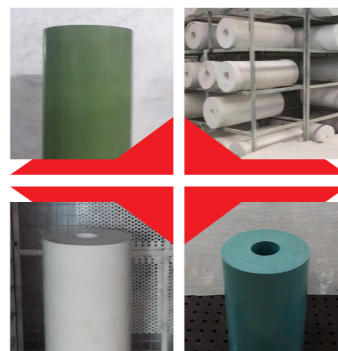
PTFE Balls	
We have a diameter range from 1mm to 300mm and a basic diameter tolerance (um) ranging from 20 to 200.	

PTFE Bearing Pads		
	Diameter	Thickness
Min.	125 mm	2.5 mm
Max.	1000 mm	12 mm



PTFE Bellows			
	Size	Length	Bellow Types
Min.	DN 25 (1")	66.04 mm (2.6")	- Flange Type Bellow - Expansion Bellow - Solid Bellow - High Pressure Bellow
Max.	DN 1050 (42")	457.20 mm (18")	

PTFE Billets			
	Outer diameter	Inner Diameter	Length
Min.	150 mm	50 mm	70 mm
Max.	350 mm	150 mm	1000 mm



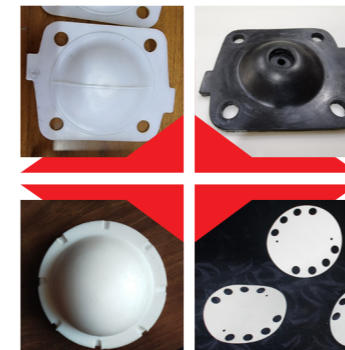
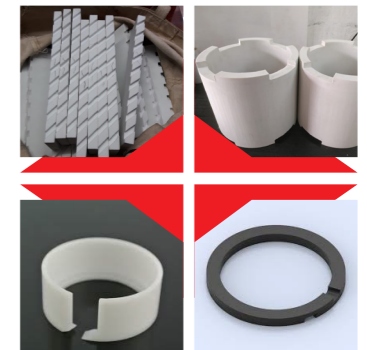
PTFE Rods					
PTFE Extruded Rods			PTFE Moulded Rods		
	Diameter	Length		Diameter	Length
Range	4 - 8 mm	Coil Form	Range	20 - 350 mm	300 mm
Range	10 - 300 mm	2000 mm	Range	351 - 1000 mm	100 mm
			Spl.	250 - 350 mm	600 mm

PTFE



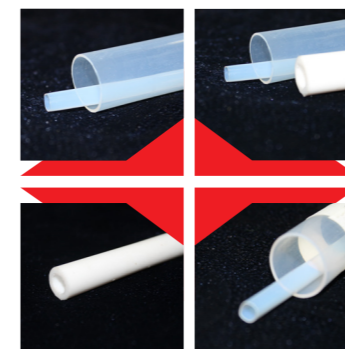
PTFE Bushes			
	Outer diameter	Inner Diameter	Length
Min.	15 mm	8 mm	20 mm
Max.	1500 mm	1300 mm	300 mm

PTFE Compressor Parts			
	Size	Length	Types of Compressor Parts
Min.	1"	25 mm	- Compressor Rod Packing - Piston Rings - Compressor Seals - Screw Compressor Spares
Max.	39"	100 mm	



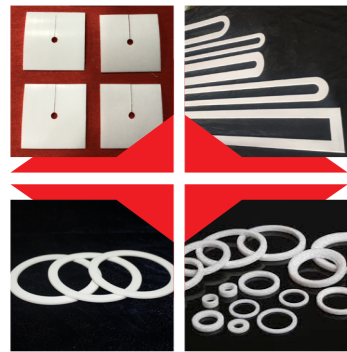
PTFE Diaphragms			
	Size	Thickness	Types of Diaphragms
Min.	12 mm	0.25 mm	- Pin Type - Straight Through Type - Diaphragms for Pumps & Actuators - Solid Type
Max.	700 mm	5 mm	

PTFE Etched Products			
	Size	Thickness	Types of Etched Products
Min.	100 mm	0.25 mm	- Bushes & T-Bushes - Gaskets - Seals - Bearing Pads - Strips - ... and other OEM Components
Max.	1500 mm	12 mm	



PTFE Tubes				
PTFE Extruded Tubes			PTFE Moulded Tubes	
	Wall Thk.	Inner Dia.	Outer Dia.	Inner Dia.
Min.	1 mm	0.5 mm	Min. 16 mm	8 mm
Max.	20 mm	100 mm	Max. 400 mm	390 mm

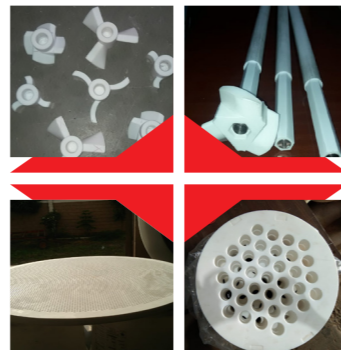
PTFE



PTFE Gaskets				
	Outer Dia.	Inner Dia.	Thickness	Types of Gaskets
Min.	15 mm	8 mm	0.5 mm	- Spiral Wound - Machined - Heat Exchanger
Max.	1500 mm	1300 mm	5 mm	- Other OEM - Expanded - Cut Sized - Enveloped

PTFE Labware

We manufacture components like: Stirrer, Guides, Joint Clamps, Beakers, Stuffing Box, Lids, Spacers, Net, Suspension Cradles, Bottles, Containers, and other OEM Components.



PTFE Nozzle/ T-Bush/ Valve Seats			
	Size	Length	For Valve Seats
Min.	DN 25	60 mm	We manufacture valve seats with special glass with high moulding pressure, thus withstanding 10 bars pressure.
Max.	DN 600	300 mm	
Shapes	- Round - Oval (350x450)		

PTFE Nuts & Bolts

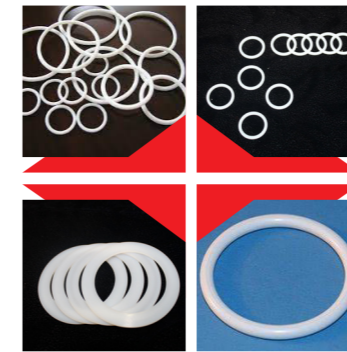
	Size	Length	Types of Bolts	Types of Nuts
Min.	¼"	1"	- Hex - Allen Key	- Square - Contact - Hex - Oval
Max.	3"	12"		



PTFE OEM Components



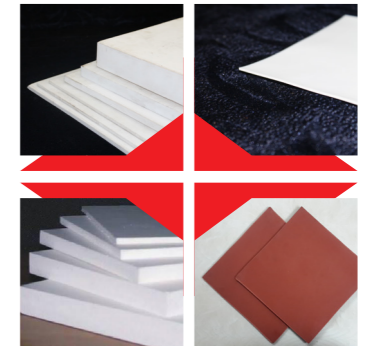
PTFE



PTFE Washers/ Rings/ O-rings					
PTFE Washers			PTFE O-Rings		
	Outer Dia.	Inner Dia.		Cross-Section	Inner Dia.
Min.	15 mm	8 mm	Min.	1.2 mm	20 mm
Max.	1500 mm	1300 mm	Max.	15 mm	450 mm
PTFE Ring					
	Outer Dia.		Inner Dia.		
Min.	15 mm		8 mm		
Max.	1500 mm		1300 mm		

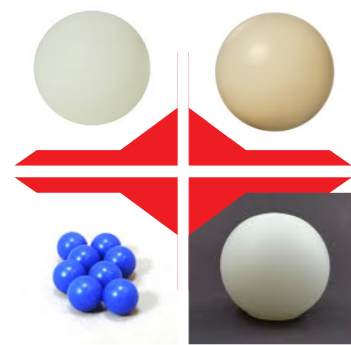
PTFE Sheets

PTFE Skived Sheets		PTFE Moulded Sheets		
	Width	Thickness	Length x Width	Thickness
Min.	70 mm	0.125 mm	Min. 150 x 150 mm	5 mm
Max.	2000 mm	5 mm	Max. 1500 x 1500 mm	50 mm
PTFE Expanded Sheets				
	Length x Width		Thickness	
Min.	150 x 150 mm		0.5 mm	
Max.	1500 x 1500 mm		3 mm	



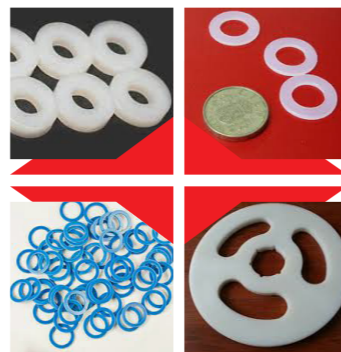
Material	Our standard usage of raw materials is Gujarat Fluorochemicals Limited (Inoflon), 3M (Dyneon), Itaflon S.R.L. (Itaflon), Daikin (Polyflon), and HaloPolymers (Fluoroplast). We can also offer other special grades as per requirements.
Filled Grades	We can manufacture Bearing Pads using the below mentioned list of filled grade: - Glass fibre - Carbon - Bronze - MoS ₂ - SS 316 - Graphite - ...and more
Note	This is our standard size range; although, considering our manufacturing capacity and on-board development team, we can manufacture other sizes as per requirement. These sizes are available in all tolerances.

UHMWPE



UHMWPE Balls	
Diameter	Basic Diameter Tolerance (um)
1 mm to 20 mm	20
20 mm to 70 mm	40
70 mm to 150 mm	80
150 mm to 300 mm	200

UHMWPE Gaskets				
	Outer Dia.	Inner Dia.	Thickness	Types of Gaskets
Min.	15 mm	8 mm	0.5 mm	- Cut Sized - Machined
Max.	1200 mm	1100 mm	5 mm	- Other OEM



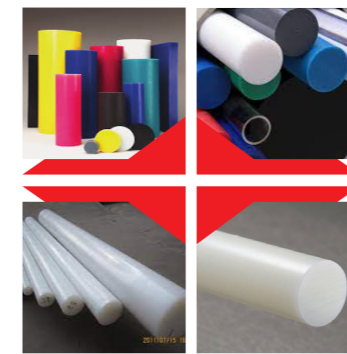
UHMWPE Guides		
	Size	Length
Min.	15 mm x 15 mm	300 mm
Max.	50 mm x 50 mm	4500 mm

UHMWPE Marine Fenders		
	Length	Thickness
Min.	50 mm x 100 mm	10 mm
Max.	1200 mm x 4500 mm	200 mm



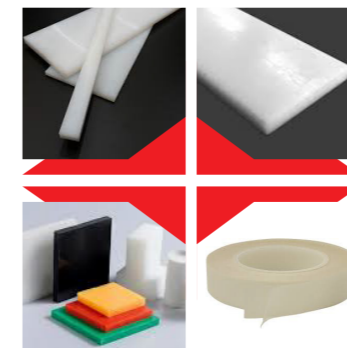
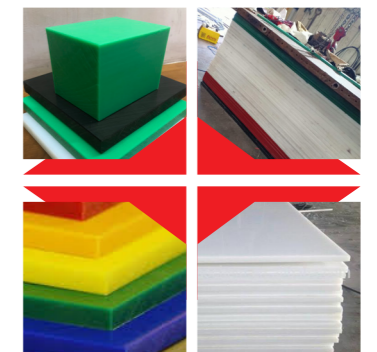
UHMWPE Pump Plates		
	Diameter	Thickness
Min.	100 mm	50 mm
Max.	600 mm	150 mm

UHMWPE



UHMWPE Rods		
	Diameter	Length
Min.	12 mm	100 mm
Max.	125 mm	2000 mm

UHMWPE Sheets		
	Length x Width	Thickness
Min.	150 mm x 150 mm	10 mm
Max.	1200 mm x 4500 mm	200 mm



UHMWPE Strips		
	Width	Thickness
Min.	10 mm	0.5 mm
Max.	150 mm	10 mm

UHMWPE Washers			
	Outer Dia.	Inner Dia.	Thickness
Min.	15 mm	8 mm	0.2 mm
Max.	1200 mm	1100 mm	15 mm



UHMWPE Wheels			
	Diameter	Thickness	Types of Gaskets
Min.	25 mm	10 mm	- Simple Wheel - Bearing Wheel
Max.	450 mm	150 mm	- Guided Wheel - and more

UHMWPE

UHMWPE Profiles



UHMWPE OEM Components



Note	This is our standard size range; although, considering our manufacturing capacity and on-board development team, we can manufacture other sizes as per requirement. These sizes are available in all tolerances.
Available Colours	<ul style="list-style-type: none"> - Natural - Dark Blue - Banana Green - Yellow - Brown - Black - Orange

NYLON

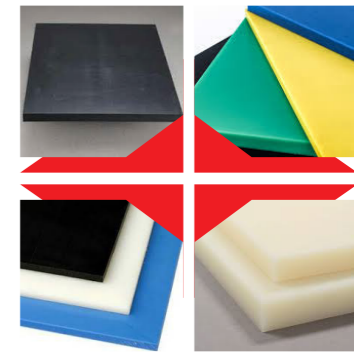


Nylon Rods

	Diameter	Length
Min.	6 mm	100 mm
Max.	200 mm	1000 mm

Nylon Sheets

	Length x Width	Thickness
Min.	150 mm x 150 mm	10 mm
Max.	1000 mm x 2000 mm	100 mm



Nylon Injection Moulded Components



Nylon OEM Components



Note	Above mentioned sizes is our standard range. Although, due to our manufacturing capacity and our in-board development team, we can manufacture other sizes as per requirement.
Available Colours	<ul style="list-style-type: none"> - Natural - Yellow - Black

LINED PRODUCTS



Lined Blind Flange	
Size	15 NB to 300 NB (1/2" to 12")
Length	As per standard of B 16.5 & ANSI B 16.42
Temperature	-29°C to ~200°C

Lined Dip Pipes	
Size	20 NB to 300 NB (3/4" to 12")
Length	Up to 3000mm
Temperature	-29°C to ~200°C



Lined Elbow	
Size	20 NB to 300 NB (3/4" to 12")
Length	As per standard of B 16.5 & ANSI B 16.42
Temperature	-29°C to ~200°C



Lined Instrument Tee	
Size	15 NB to 300 NB (1/2" to 12")
Length	As per standard of B 16.5 & ANSI B 16.42
Temperature	-29°C to ~200°C



Lined Pipes	
Size	20 NB to 300 NB (3/4" to 12")
Length	Up to 6000mm
Temperature	-29°C to ~200°C

LINED PRODUCTS



Lined Reducing Flange	
Size	15 NB to 300 NB (1/2" to 12")
Length	As per standard of B 16.5 & ANSI B 16.42
Temperature	-29°C to ~200°C

Lined T-Section	
Size	15 NB to 300 NB (1/2" to 12")
Length	As per standard of B 16.5 & ANSI B 16.42
Temperature	-29°C to ~200°C



Properties			
Particulars/Grades	PTFE	PFA	FEP
Tensile Strength, PSI (min)	3500	3800	3000
Elongation, % (min)	300	300	250

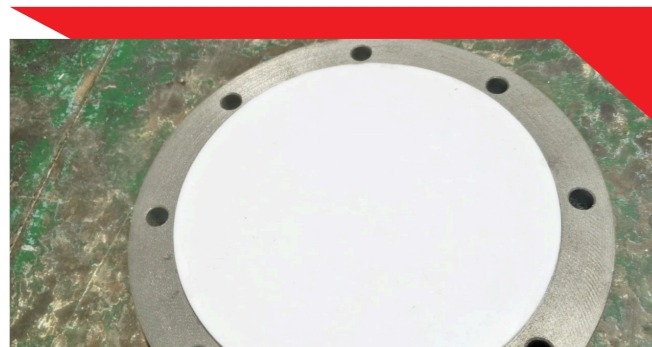
Testing	
Hydro Test	Spark Test
at 29 Bar, after lining	at 25 KV

Material	Our standard usage of raw materials is Gujarat Fluorochemicals Limited (Inoflon), 3M (Dyneon), Itafion S.R.L. (Itafion), Daikin (Polyflon), and HaloPolymers (Fluoroplast). We can also offer other special grades as per requirements.
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SHEET LINING

Lining Material	Thickness
PFA, FEP, PTFE, ETFE, PVDF, and PP	up to 4 mm*
Material	Our standard usage of raw materials is Gujarat Fluorochemicals Limited (Inoflon), 3M (Dyneon), Itaflon S.R.L. (Itaflon), Daikin (Polyflon), and HaloPolymers (Fluoroplast). We can also offer other special grades as per requirements.
Types	<ul style="list-style-type: none"> - Bonded Sheet Lining (the sheet is bonded to metal with the help of an adhesive & joints are thereby thermo-welded together) - Loose Sheet Lining (the sheet is welded together and inserted into metal equipment without bonding)
Applications (Industries)	<ul style="list-style-type: none"> - Chemical - Electrical - Fertilizers - Petrochemicals - Oil Exploration - Defence - and more... - Pharmaceuticals - Electronics and Communications - Pesticides - Nuclear Power - Food Processing - Aerospace

*Different sizes available as per customization and requirement.



OUR REACH

We at Electro Polymers Industries (ISO 9001:2015 and 14001:2015) offer a wide range of products made from PTFE, UHMWPE and Nylon raw material grades. Our mission is to design, develop, manufacture and market high performance engineered plastic components to diversified industries. We offer an extensive range of components having different properties and colour that can be used across a variety of industries. All our products are tested and verified at multiple levels by our engineers. We ensure to deliver high precision components that suit our customers' requirements. We specialise in Isostatic moulded components that assist us in delivering high quality engineered products.

Our vision is to provide value to our clients by blending suitable applications via innovative technologies and deliver cost-effective yet high-precision polymer components for application that meet exceptional performance. We have offered our products and developed strong business relationship in Australia, European, Middle Eastern and African Countries so far. With increasing trade prospects and interests, we intend to further expand our reach to other countries in these coming years.



Over these years, ELPOL® has successfully built a reputation of reliability, exceptional customer service and the assurance to deliver quality products on time and within budget. Market leaders from various industries have chosen ELPOL® as a source of their critical OEM components' requirements.

- Aerospace
- Agriculture
- Automotive
- Chemical
- Construction
- Defense
- Electronics and Communications
- Energy
- Fertilizers & Pesticides
- Food Processing
- Mechanical and Electrical
- Mining
- Nuclear Power
- Petrochemicals
- Pharmaceuticals
- Shipping
- Textile