ELIX POLYMERS

A member of Sinochem International

High performance

POLYMER MODIFIERS



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ELIX Polymers

manufacturer of ABS (Acrylonitrile-Butadiene-Styrene) resins and ABS/SAN based polymer modifiers for the compounding industry, with a track record of more than 45 years.

Operating from its head office in Tarragona, Spain with sales support teams in all key markets around the world and as an Sinochem International member, the company is a specialist provider of tailor made solutions for high quality thermoplastics applications.

ELIX Polymers is an expert in ABS polymers, and it has the resources, the expertise and the experience to create value for its customers through highly individual solutions.

Compromise

Certifications

Member of:

ELIX
Polymer Modifiers

Grades		Typical Basic Properties			
		Butadiene Content (%) in polymer	Acrylonitrile Content (%) in polymer	Melt volume-flow rate 220ºC/10kg cm³/10' ISO 1133	Physical form
ABS	158I	54-58			Powder
SAN	230G		26,5-28,5	90-110	Pellets
	250G		23,0-24,5	35-45	Pellets
	260G		26,5-28,5	50-61	Pellets
	280G		23,0-24,5	30-35	Pellets

Grades		Major Benefits	Typical Applications
ABS	158I	Impact modifier, Superior low temperature performance.	Used to improve toughness of engineering thermoplastics and PVC.
SAN	230G	Improved flowability for ABS grades; Excellent balance of mechanical properties, process ability and aesthetics; Easy dispersion for pigments & colorants.	Used as base resin in color concentrates; Suitable for blending purposes.
	250G	Improved flowability for ABS grades; Excellent balance of mechanical properties, process ability and aesthetics; Easy dispersion for pigments & colorants.	Used as base resin in color concentrates; Can be blended with High Rubber Modifiers (ELIXTM 100 series) to manufacture or modify properties profile of ABS resin and blends containing Polycarbonate.
	260G	Improved flowability for ABS grades; Excellent balance of mechanical properties, process ability and aesthetics; Easy dispersion for pigments & colorants.	Used as base resin in color concentrates; Can be blended with High Rubber Modifiers (ELIXTM 100 series) to manufacture or modify properties profile of ABS resin and blends containing Polycarbonate.
	280G	Improves melt strength and melt stability in PVC compositions and ABS resin; Allows superior dynamic loading performance for ABS resin.	Used to improve dimensional and thermal stability in PVC extruded applications; Can be blended with High Rubber Modifiers (ELIXTM 100 series) to manufacture or modify properties profile of ABS resin; Used as Intermediate for polymer blends.

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Cadon

Grades	Typical basic properties				
	Melt Volume-Flow Rate 220°C/10kg cm^3/10' ISO 1133	Tensile Modulus 1 mm/min MPa ISO 527-1,-2	Izod notched impact strength 23°C kJ/m^2 ISO 180-1A	Izod Notched Impact Strength -30°C kJ/m^2 ISO 180-1A	Vicat 50N, 50°C/h °C ISO 306
CG28	14	1600	28	21	93

Grades	Major Benefits	Typical Applications
CG28	Very high toughness, medium flow, excellent impact and fracture resistance at low temperatures. Grade designed for self-colouring	Used to improve toughness of engineering thermoplastics and PVC.

Technical Information
Processing

Drying Conditions

Recommended drying conditions for **ELIX ABS, PC/ABS** and **CADON** grades

ELIX Grade	Drying Temperature (°C)	Permitted Residual Moisture Content (% weight)	Drying Time (h)		
			Circulation Dryer (50% Fresh air)	Fresh Air Dryer (High speed)	Dried Air System
ELIX ABS CADON	80	<0,15	4 – 6	3 – 4	2 – 3

For process parameters consult the ELIX Injection Moulding Guideline (available in the corporate web site)

Injection Conditions

ELIX Grade	Melt Temperature (°C)	Mould Temperature (°C)	Processing Temperature (°C)			
			Feeding Section	Compression Section	Metering Section	Nozzle
ELIX ABS CADON	230-260	60-80	180-210	210-240	215-240	220-240

Services

Proximity to customers

We give equal importance to our proximity to the customers in terms of bespoke services, as well as to geographical proximity to our main markets.

Our sales team and our group of customer service representatives are in charge of managing all aspects related to proximity to the client, to guarantee a personalized approach. Furthermore, our secure web portal gives customers' online access to company information such as invoices, COA's, order status, new orders and other features.

We have the capacity and expertise to design Tailor made logistic solutions to be close to our customers and help them respond to changing market demands, for example, creation of logistic hubs.

This helps to enable us to apply Lean/Just-in Time- principles to our production, thereby increasing our agility, flexibility and efficiency.

In the NAFTA Region (USA, Mexico, Canada) we operate through a logistic hub to support the resin distribution in the area.

Flexibility

Our corporate structure is designed to allow for additional technical/production capacity, affording our customers the flexibility and agility to cover possible changes in demand, and to help assure them a steady supply of our products.

Through our cross-functional teams, we evaluate and continuously revise our lead times, with the aim of adapting to market needs.

In Europe, we offer our customers one of the best lead times in the market for standard materials and a competitive lead time for customized materials.

We will also work with you if you have any special need for even shorter lead times.

Tailor-made services

We provide tailor-made solutions for our Products and our Services.
Our agility measures such as Taskforces and Perfect Order Committee work to satisfy the logistic needs of all our clients.
These multidisciplinary teams function as one exchanging all relevant information that allows us to adapt to changing circumstances and best serve our customers.
We also leverage use of a Customer Relationship Management (CRM) database that enables us to register every type of transaction we have with our customers, allowing us to constantly improve our service.

Proactivity

One of our priorities is to collaborate closely with customers, suppliers and distributors in a way that enables us to establish long-term relationships to achieve positive synergies. This makes it vital for us to keep abreast of external factors that could impact on all parties, such as those relating to climate, socio-economic, socio- demographic, political and security matters. Thanks to our Business Intelligence we have a 360° perspective and can offer relevant advice to our clients in a timely and effective manner to help them make the best possible business decisions.

Global Presence

We currently have commercial relationships with companies in 40 countries.

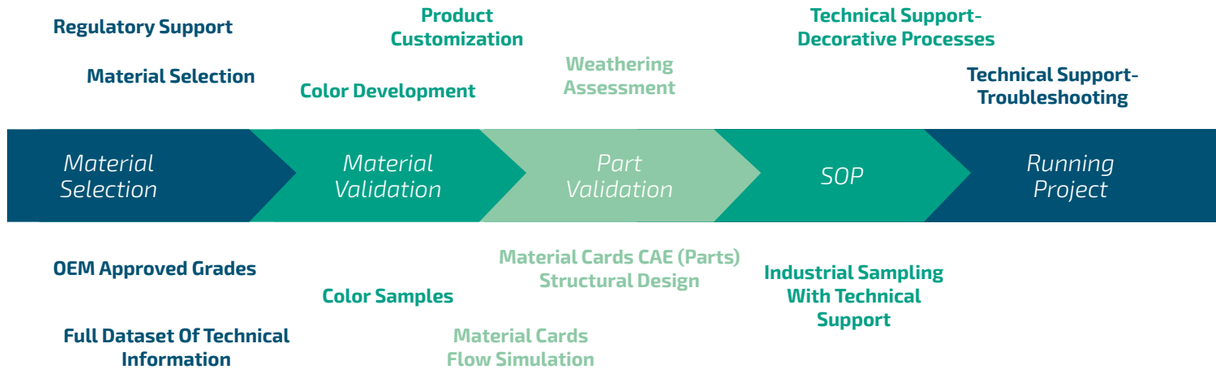
We offer customer service in a broad range of languages helping to simplify and improve the communications.

Our extensive knowledge of international business allows us to advise our clients as regards the correct choice of Incoterms, thereby optimizing the management of safety and risk.

Our four decades of experience enable us to offer worldwide service coverage individually, and to help each and every one of our clients to deal with their specific and differing sets of market factors, regardless of where they are based.

**ELIX SERVICES is subject to the customer's geographic location, the type of business and other factors to be evaluated individually.*

Technical Service



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E-LOOP

Let's close the loop

Circular Economy

Sustainability report

E-LOOP *covers all Circular Economy initiatives in terms of product, design and service.*

Circular Plastics & Responsible Innovation are the strategic programmes of ELIX Sustainable Portfolio Solutions.

Let's close the loop!

ELIX Polymers has developed mechanical and chemical recycled products with equivalent material properties to prime material.

Depending on the application and the part requirements we support you to choose the right material.











Responsible innovation

ELIX Sustainable Goal I. Promote a circular plastics economy system.

ELIX Sustainable Goal IV. Contribute to reducing biodiversity loss.

- Improve the sustainability of ELIX materials.
- Promote the design of reusable and recyclable products.

Circular plastics

ELIX Sustainable Goal I. Promote a circular plastics economy system.

- Recover and reuse or recycle discharged ABS and blend components and materials.
- Use raw materials from renewable or recycled sources.
- Strengthen collaboration along the value chain to create new circular business models.
- Improve customer engagement and logistics to close material loops.
- Improve transparency and traceability of flows.

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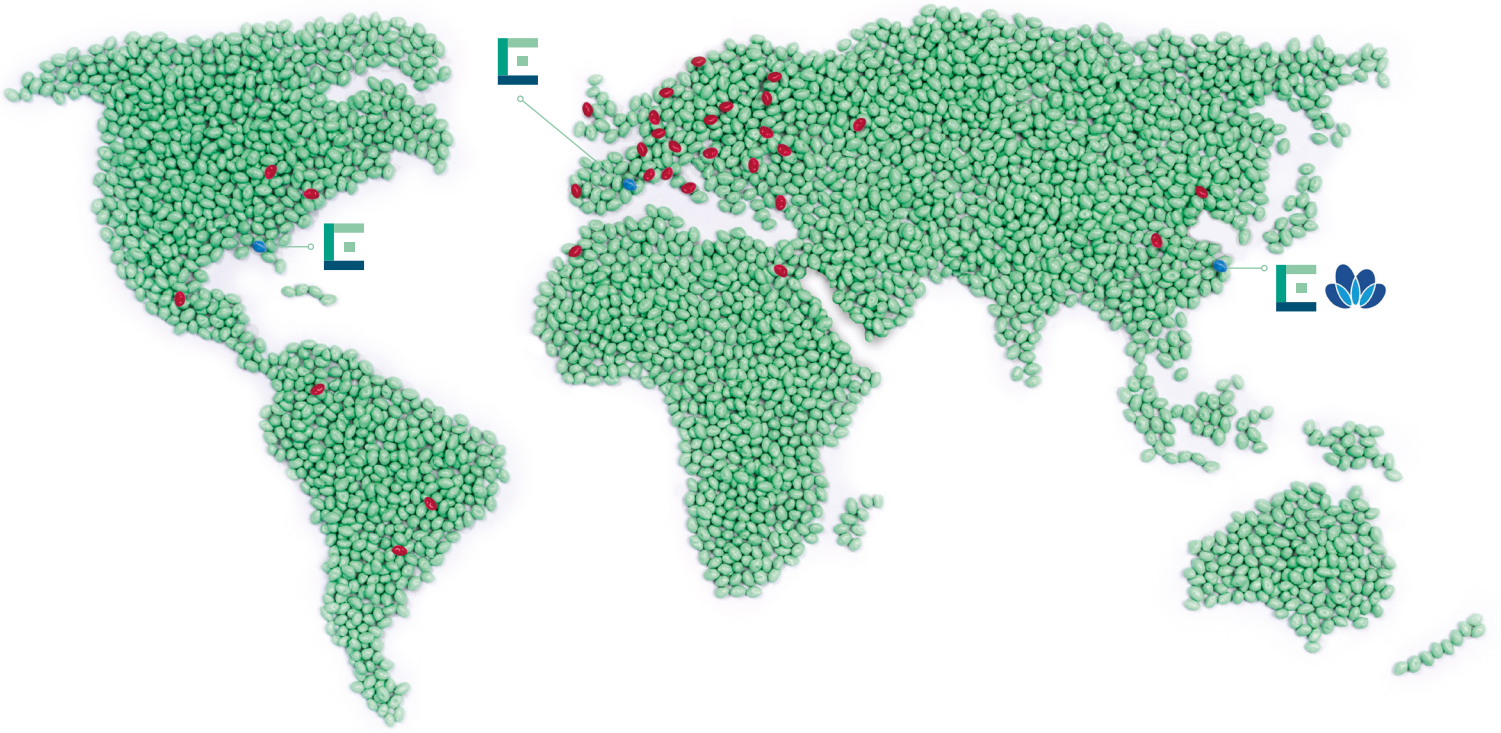

ABS Manufacturer

Global presence, covered by extensive ELIX Polymers' sales force, distributors and agents

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