

PARTNER HIGHLIGHT



ELIX Polymers is a leading manufacturer of ABS (Acrylonitrile-Butadiene-Styrene), PC/ABS resins and derivatives in Europe. Operating from its head office in *Tarragona, Spain*, and with sales support teams in all key markets, the company is a specialist provider of tailor-made solutions for high quality thermoplastics applications. With a 40-year track record, **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.

ELIX Polymers has strong technical expertise in product formulation and color development and offers a range of high performance products that meet the stringent requirements of the Automotive, Healthcare, Appliances, Electrical and Electronic and other industries.

In addition, the company has ISO 9001, ISO 14001 and ISO 50001 certifications and fully underwrites the chemical industry's responsibilities.

PRODUCTS

Our high-quality products meet the most varied requirements of our customers.

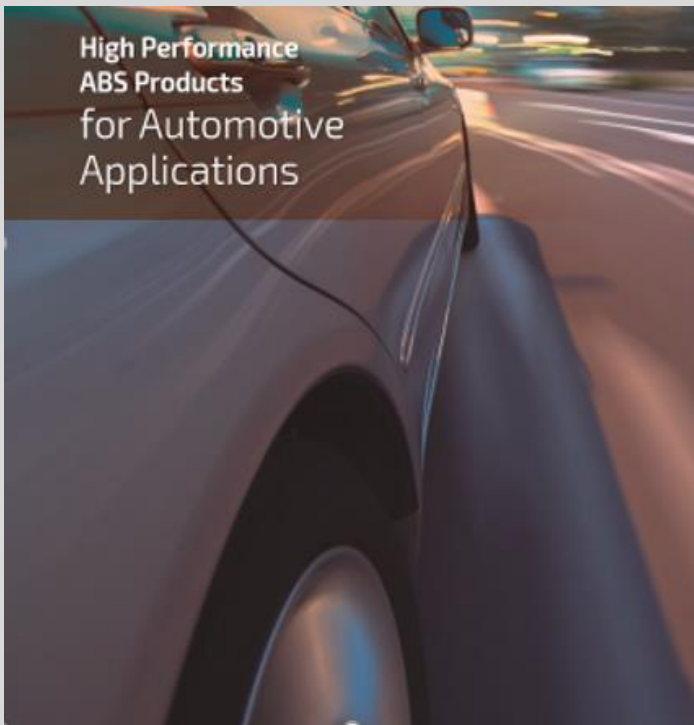
- [ELIX ABS](#)
- [ELIX PC/ABS](#)
- [ELIX POLYMER MODIFIERS](#)
- [CADON](#)



ELIX Polymers Tarragona, Spain

MARKETS

Thanks to our experience, we have become leaders in the most demanding markets, offering customized solutions for every situation.

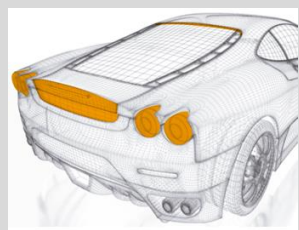




ELIX Polymers Automotive has strong technical expertise in product formulation and color development and offers a range of high performance products that meet the stringent requirements of the Automotive Industry and are suitable for general purpose, high heat, low emission, electroplating and pre-colored applications.

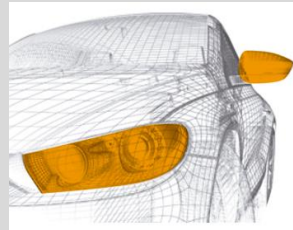
The company counts leading global Tiers among its customers and the materials are used for interior and exterior applications of the main OEMs. ELIX Polymers has ISO 9001, ISO 14001 and ISO 50001 certifications and fully underwrites the chemical industry's responsibilities.

ELIX Polymers' vision is to be the benchmark global leader in the specific thermoplastics market. As a customer-oriented company, the company offers a broad portfolio of products as well as personalized services. The key factors are a high level of experience in the sales and technical marketing departments, as well as its team of professionals who make up the human capital of ELIX Polymers.



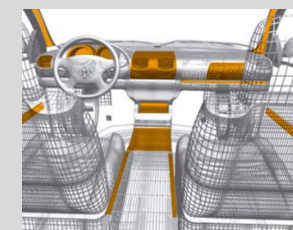
EXTERIOR PARTS

- Exterior painted parts
- Radiator grilles
- Mirror housings
- Spoilers
- Rear light housings
- Painted tailgate handles



ELECTROPLATED PARTS

- Radiator grilles
- Logos
- Profiles
- Tailgate handles
- Decorative interior parts



INTERIOR PARTS

- Seating parts
- Door panel parts
- Instrument panel
- Parts Pillars
- Glove box compartments
- Center consoles
- Sun visors
- Air vents

Medium Heat Resistance Grades

Typical properties	Test condition	Unit	Standard	ELIX ABS Grades		
				P2M-V	H604	H605
Melt Volume Rate	220°C/10kg	cm ³ /10min	ISO 1133	18	9	25
Tensile Modulus	1mm/min	MPa	ISO 527-1,-2	2300	2400	2400
Izod Notched Impact Resistance	23°C	kJ/m ²	ISO 180-1A	23	21	17
Izod Notched Impact Resistance	-30°C	kJ/m ²	ISO 180-1A	11	12	7
High Deflection Temperature (HDT)	1,80 MPa	°C	ISO 75-1,-2	93	98	98
High Deflection Temperature (HDT)	0,45 MPa	°C	ISO 75-1,-2	98	102	102
Vicat	B50	°C	ISO 306	97	102	101
Vicat	B120	°C	ISO 306	100	104	103

High Heat Resistance Grades

Typical properties	Test condition	Unit	Standard	ELIX ABS Grades		
				HH3105	HH3110	HH3114
Melt Volume Rate	220°C/10kg	cm ³ /10min	ISO 1133	16	12	9
Tensile Modulus	1mm/min	MPa	ISO 527-1,-2	2150	2300	2200
Izod Notched Impact Resistance	23°C	kJ/m ²	ISO 180-1A	18	15	13
Izod Notched Impact Resistance	-30°C	kJ/m ²	ISO 180-1A	11	11	8
High Deflection Temperature (HDT)	1,80 MPa	°C	ISO 75-1,-2	99	101	104
High Deflection Temperature (HDT)	0,45 MPa	°C	ISO 75-1,-2	104	107	112
Vicat	B50	°C	ISO 306	103	108	112
Vicat	B120	°C	ISO 306	105	110	114

ABS (PC modified) Grades

Typical properties	Test condition	Unit	Standard	ELIX ABS Grades		
				H801	Ultra 4105	Ultra HH 4115 HI
Melt Volume Rate	220°C/10kg	cm ³ /10min	ISO 1133	9	14*	14*
Tensile Modulus	1mm/min	MPa	ISO 527-1,-2	2400	2000	2000
Izod Notched Impact Resistance	23°C	kJ/m ²	ISO 180-1A	30	42	58
Izod Notched Impact Resistance	-30°C	kJ/m ²	ISO 180-1A	12	34	41
High Deflection Temperature (HDT)	1,80 MPa	°C	ISO 75-1,-2	99	99	101
High Deflection Temperature (HDT)	0,45 MPa	°C	ISO 75-1,-2	106	108	113
Vicat	B50	°C	ISO 306	105	106	113
Vicat	B120	°C	ISO 306	108	109	115

PC/ABS Blends

Typical properties	Test condition	Unit	Standard	ELIX PC/ABS Grades	
				5120	5130
Melt Volume Rate	260°C/5kg	cm ³ /10min	ISO 1133	21	21
Tensile Modulus	1mm/min	MPa	ISO 527-1,-2	2320	2270
Izod Notched Impact Resistance	23°C	kJ/m ²	ISO 180-1A	51	53
Izod Notched Impact Resistance	-30°C	kJ/m ²	ISO 180-1A	39	39
High Deflection Temperature (HDT)	1,80 MPa	°C	ISO 75-1,-2	101	104
High Deflection Temperature (HDT)	0,45 MPa	°C	ISO 75-1,-2	120	123
Vicat	B50	°C	ISO 306	118	128
Vicat	B120	°C	ISO 306	120	130

Electroplating Grades

Typical properties	Test condition	Unit	Standard	ELIX ABS Grades		
				P2MC	HHP2MC	Ultra HH 4115 PG
Melt Volume Rate	220°C/10kg	cm ³ /10min	ISO 1133	25	22	14*
Tensile Modulus	1mm/min	MPa	ISO 527-1,-2	2200	2210	2000
Izod Notched Impact Resistance	23°C	kJ/m ²	ISO 180-1A	23	21	58
Izod Notched Impact Resistance	-30°C	kJ/m ²	ISO 180-1A	12	12	41
High Deflection Temperature (HDT)	1,80 MPa	°C	ISO 75-1,-2	94	100	101
High Deflection Temperature (HDT)	0,45 MPa	°C	ISO 75-1,-2	96	104	113
Vicat	B50	°C	ISO 306	95	103	113
Vicat	B120	°C	ISO 306	97	105	115



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