

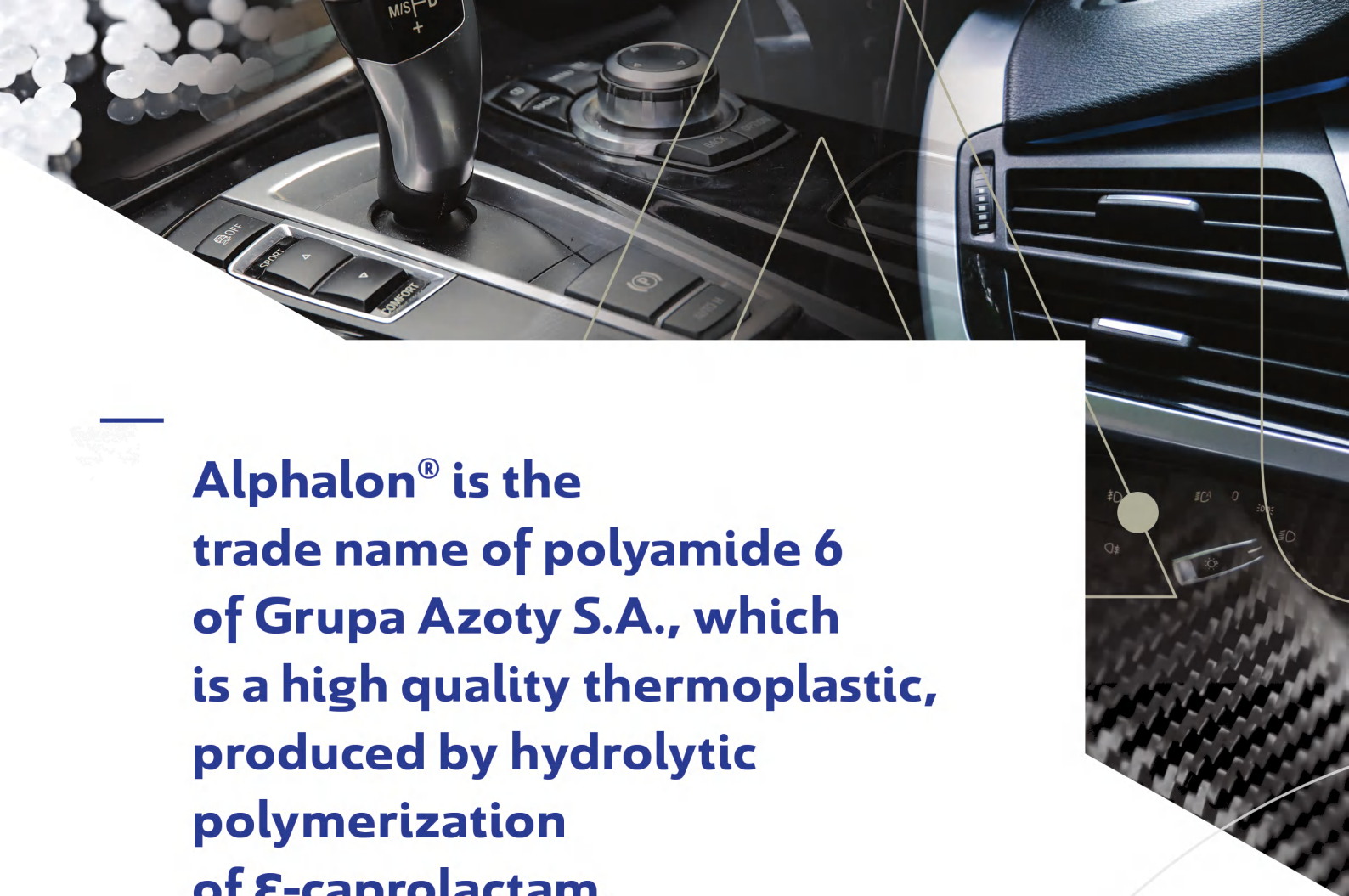


Alphalon[®]

POLYAMIDE 6

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Alphalon® is the trade name of polyamide 6 of Grupa Azoty S.A., which is a high quality thermoplastic, produced by hydrolytic polymerization of ϵ -caprolactam.

Alphalon® may be processed to various technics:

- extrusion into fibers, filaments, films, semi-finished products: plates, rods, tubes, profiles,
- by injection moulding into technical parts.

Typical application of Alphalon® include fibers for carpets, technical fibers – monofilaments, food packaging films, as well as technical parts for automotive, electrotechnics, machines, household articles.

Alphalon® has the following properties:

- high mechanical strength, rigidity and hardness,
- high impact strength,
- high vibration damping capacity,
- good fatigue strength,
- very good sliding properties, abrasion resistance, low coefficient of friction,
- high thermal resistance, admissible temperature of continuous operation from -60°C to $+80^{\circ}\text{C}$ and during a short period of time up to $+115^{\circ}\text{C}$,
- high chemical operation resistance, particularly to organic solvents, oils, lubricants and fuels inclusive,
- it's hygroscopic, absorbed moisture influence mechanical and electrical properties,
- self-extinguishing properties,
- good electro-insulating properties,
- good optical properties,
- melting temperature app. 220°C .

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Alphalon® product line

Alphalon® polyamide 6 (PA6) grades

	Relative viscosity	Viscosity number	Additives	Application
Alphalon® 24	2,4	125		compounding
Alphalon® 25	2,5	135		compounding
Alphalon® 27	2,7	150		BCF, textile fibers, monofilaments
Alphalon® 27 C	2,7	150		compounding
Alphalon® 27 D	2,7	150		compounding, monofilaments
Alphalon® 33	3,3	195		BOPA film, monofilaments
Alphalon® 36	3,6	218		cast film
Alphalon® 38	3,8	235		blown film, monofilaments, casings
Alphalon® 40	4,0	250		blown film, casings
Alphalon® 33 L	3,3	195	lubricant	BOPA film, monofilaments
Alphalon® 36 L	3,6	218	lubricant	cast film, monofilaments
Alphalon® 36 LN/2F	3,6	218	lubricant, nucleating agent	cast film
Alphalon® 40 L	4,0	250	lubricant	blown film, monofilaments, casings
Alphalon® 40 LN/1F	4,0	250	lubricant, nucleating agent	cast film, blown film
Alphalon® 40 LN/2F	4,0	250	lubricant, nucleating agent	cast film, blown film
Alphalon® 40 LN/3F	4,0	250	lubricant, nucleating agent	cast film, blown film

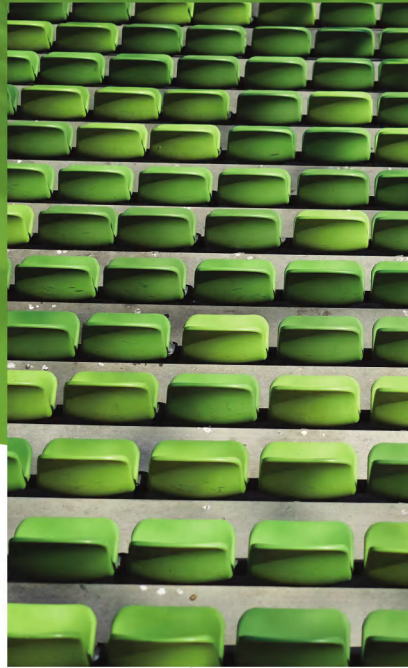
Nomenclature: Alphalon® (polyamide 6) grades are designated by letters and digits which indicate viscosity and additives.

Viscosity class:

- 24 - very low viscosity,
- 25, 27 - low viscosity,
- 32, 33 - intermediate viscosity,
- 36, 38, 40 - high viscosity.

Additives coding:

- L - lubricant,
- LN - lubricant and nucleating additive,
- T - heat stabilized.



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