



POLYSCOPE
fresh thinking, great products

PLASTICS



RECOGNIZE THE DIFFERENCE WHEN IT COMES TO PRECISION



Polyscope Polymers offers an extended product range of SMA styrene maleic anhydride copolymers and compounds under the trade name XIRAN®. Polyscope's XIRAN® resins are qualified on more than 50 automotive programs and are implemented at numerous OEM and Tier customers globally.

XIRAN® Compound products

XIRAN® compounds are impact and glass reinforced modified styrene maleic anhydride

(SMA) copolymers. The glass reinforced series XIRAN® SG grades are widely used in the automotive industry providing an excellent property profile for applications like structural instrument panels (IP) carriers and trims. XIRAN® SM grades are impact modified as well, but do not contain glass fibres, making them ideally suited for aesthetical applications requiring a smooth surface. The latest addition to the XIRAN family are the XIRAN® SE grades, designed for excellent extrusion processability.



XIRAN® Compounds

SG	SG : GF Impact Modified
SF	SF : GF Glass Filled
SM	SM : Impact Modified
SE	SE: Extrusion Grade



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XIRAN® for structural parts

XIRAN® grades have a unique property processing window combining high rigidity, excellent heat resistance and chemical adhesion with good impact behaviour. These properties make it ideally suitable for soft-feel instrument panels with integrated airbag functionality. Its capability to be moulded with very tight tolerances makes XIRAN® the ideal material for complex and precise parts like sunroof frames.

The high intrinsic stiffness of XIRAN® allows the design of components with low glass content and thin walls whilst maintaining high dimensional stability (low warpage and low sagging) in the final part. This results in weight savings and less wear and tear for tooling and machinery.

XIRAN® extreme adhesion performance allows foaming and painting without surface pre-treatments. This ensures a high and constant quality level, reducing the total production costs. XIRAN® grades as for example SG230 and SG260 provide an optimal property balance for structural parts and a cost effective solution compared to PP-LGF or PC/ABS.

XIRAN® for interior trim

Polyscope's impact modified SMA grades (XIRAN® SM) with superior heat resistance and excellent surface adhesion are well suited for painted or foamed automotive trims. Typical examples are air intake grilles, door handles, bezels and lighting housings. XIRAN® SM grades are a very cost effective solution for automotive components.

XIRAN® makes it different...

- Best in class paint and foam adhesion
- Excellent dimensional stability
- High heat distortion temperature
- Excellent long term heat ageing properties
- High strength and stiffness
- Good chemical resistance
- Excellent processability / recyclability

- Design opportunities
- High precision molding
- Thin wall applications: reduced weight
- Reduced system costs
- No flame treatment necessary
- Dimensional stability contributes to reduced need for metal reinforcements
- Fast cycle times

	Units SI	XIRAN® SG230	XIRAN® SG260	XIRAN® SM200
MFI 240° C, 10 kg	Dg / min	22	6	22
Flexural Modulus	MPa	5400	8500	2200
HDT	°C	118	120	100
Charpy un-notched	KJ/m ²	28	31	55