fasipol
POLYURETHANE MOULDING

R.I.M. HT

PU FOR HIGH TEMPERATURES

HCFC-free R.I.M. polyurethane system (ODP = 0), designed for manufacturing exterior vehicle accessories (bumpers, fenders, casings, grilles) and components exposed to high thermal and mechanical stress.

Technical Information

- High heat resistance.
- High mechanical strength.
- Processable in variable thicknesses.
- Excellent paintability (in-mold and post-molding).
- Suitable for complex geometries.
- Possibility of embedding inserts for fastening and/or reinforcement.
- Waste Classification: Special NON-HAZARDOUS.
- European Waste Code: 07.02.13

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Typical Physical-Mechanical Properties of the Molded Part

Property	Unit	Global Value	TEST
Density	Kg/m³	1050–1100	DIN 53479
Tensile strength	MPa	18–22	DIN 53504
Elongation at break	%	140–160	DIN 53504
Flexural elastic modulus	MPa	360–390	UNI EN ISO 178
Flexural strength	MPa	15–17	UNI EN ISO 178
Hardness	Shore D	56–59	ISO 868
Tear strength	N/mm	85–105	DIN 53507
Heat deformation (120 °C, 1h, 100 mm overhang)	mm	2.2–2.5	ASTM D3769

Tests were conducted on 4 mm plates. Values measured at room temperature.

TÜV NORD TÜV NORD Italia S.r.l. ISO 9001

Certified Company UNI EN ISO 9001:2023

Technical data sheet revised on 13/05/2025

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In-Mold Surface Treatment

- In-mould treatment with water-based polyurethane paint.
- Paint characteristics:
  - » Good abrasion resistance.
  - » Good UV resistance (UNI ISO 4892-4582).

Scale Type	Sample	International Standards for Resistance Values
BLUE Scale	5/6 for both colours	From 1 to 8
GREY Scale	5 for black 4–5 for light grey	From 1 to 5

BLUE Scale: 1 = poor resistance, 8 = excellent resistance.

GREY Scale: 1 = poor resistance, 5 = excellent resistance.