RAL 1023 Traffic Yellow PPGI

OMEGA STEEL CO.
Istanbul · Dilovası plant

RAL 1023 traffic yellow is the safety yellow: road signs, car-park guardrails and column protectors, machine guards, crane and forklift parts, industrial doors and hazard markings. It is the warmest, purest yellow in the RAL range and — like all bright yellows — the hardest to keep outdoors: organic yellow pigments in polyester fade in 3–5 years of sun, so 1023 is specified in PVDF or with inorganic pigment for anything exposed. We roll 1023 in 0.50–1.2 mm PE for indoor and painted-after items and PVDF to order for outdoor signage and barriers, and fold it into guards, protectors and trims on our lines.

RAL 1023 · traffic yellow | LRV ≈ 50 % | PE 0.50–1.2 mm | PVDF for outdoor | Safety & signage

Yellow is the colour that must be seen and the colour that fades first — order 1023 in the system that matches how long it has to stay yellow.

COLOUR DATA

RAL code	Name	Approx. hex	Light reflectance (LRV)	Gloss (60°)	Colour tolerance
RAL 1023	Traffic yellow / Verkehrsgelb	#F7B500	≈ 50 %	60–80 (gloss); 30–40 semi-gloss	ΔE ≤ 1.5 to RAL 841-GL (high-chroma tolerance)

PAINT SYSTEM AND PIGMENT CHOICE

System	Pigment	Indoor life	Outdoor life (C3)	Note
PE polyester 25 µm, organic yellow	arylide / benzimidazolone	15+ yr	3–5 yr before visible fade	stock; indoor guards, protectors, short-life parts
SMP / HDP 25 µm, inorganic yellow	bismuth vanadate	20+ yr	10–15 yr	outdoor barriers and kerb rails
PVDF 25–35 µm	inorganic / high-performance organic	25+ yr	20 yr, ΔE ≤ 2	road signs, permanent safety, signage
Powder coat over HDG (duplex)	polyester powder	20 yr	10–15 yr	alternative for fabricated guards after welding

Yellow fades first among all RAL colours. For anything outdoors that must stay yellow beyond five years, specify PVDF or inorganic-pigment SMP and ask for the pigment on the coating certificate.

SAFETY AND PROTECTION PARTS FOLDED FROM 1023

Item	Gauge	Finish	Note
Column protectors (folded plate, 400–600 mm high)	1.0–1.2 mm	PE (indoor) / PVDF	concrete columns, ramps
Kerb rails and wheel stops	1.0–1.2 mm	PE / PVDF	bay ends
Machine guards and covers	0.8–1.2 mm	PE	with black-yellow chevron strips
Height restrictors and swing bars	1.0 mm skins	PVDF	entrances
Signage blanks and gantry panels	0.7–1.0 mm	PVDF	road and plant signs
Chevron and hazard strips	0.5–0.7 mm	PE / PVDF	slit 50–150 mm, paired with RAL 9005

Guardrail posts and rails themselves are hot-dip galvanized; 1023 sheet is used for the visible protectors and markings — see the car-park guardrail service.

THICKNESS RANGE AND STOCK SIZES

Thickness	Widths × lengths	Availability
0.50–0.70 mm	1 000 / 1 250 mm coil; sheet to 6 000 mm	PE from stock 3–7 days
0.80–1.20 mm	1 250 mm coil; sheet 2 500 / 3 000	to order 2–3 weeks — guards, protectors
PVDF / inorganic SMP	0.50–1.0 mm	to order, 5 t per system
Chevron strip	0.50–0.70 mm	slit 50–150 mm

STANDARDS

EN 10169 — continuously organic-coated (coil-coated) steel · EN 10346 — DX51D+Z substrate · RAL 841-GL colour register · EN 13523 (ECCA) test methods; EN 10204 3.1