ORALITE® 6910

Brilliant Grade

Reflective Properties

Reflective Technology: Prismatic , Reflectivity classes: RA3B, Reflective film structure: C, Reflection norm: ORALITE® 6910 - Tabelle 1 (DIN 67520:2008-11 RA3B; Aufbau C), ORALITE® 6910 - Tabelle 2 (DIN 67520:2008-11 RA3B; Aufbau C), ORALITE® 6910 - Tabelle 3 (DIN 6171-1:2013-10), ORALITE® 6910 - Tabelle 4 (DIN 6171-1:2013-10)

Areas of Application

- Traffic signs
- Construction sites
- Traffic & transportation
- Advertising & signage

Colours

ORALITE® 6910 is available in the following colours: White (F010), Yellow (F020), Red (F030), Orange (F035), Blue (F050), Green (F060), Yellow-Green fluorescent (F029), Yellow fluorescent (F037), Orange fluorescent (F038)

Total thickness

- 0.345 mm (Average, without protective liner, standard colours)
- 0.385 mm (Average, without protective liner, fluorescent colours)

Front material

Acrylic film

Adhesive

Solvent-polyacrylate, permanent (Metallic substrates like aluminium or galvanised sheet steel), White

Technical properties

RESISTANCE

Durability	with professional processing and vertical outdoor weathering	
	12 Year(s)	unprinted
	10	Yellow-Green fluorescent, Yellow fluorescent
	3	Orange fluorescent
Shelf Life	1 Year(s)	in original packaging, at 20 °C and 50 % relative humidity

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Temperature resistance	Minimum temperature -56 °C Maximum temperature 82 °C	adhered on aluminium

ADHESIVE PROPERTIES

Adhesive power	15 N/25 mm	after 24 h, on stainless steel | FINAT TM 1, film tear

PROCESSING

Application temperature	Minimum temperature 10 °C	

Table 1 - Specific coefficient of retroreflection R' in cd / (lx m²) (New condition; DIN 67520: 2008-11 RA3B; Design C)

Observation Angle	0.33°				1.00°				1.50°			
Entrance angle	5°	20°	30°	40°	5°	20°	30°	40°	5°	20°	30°	40°
White (010)	300	240	165	30	35	30	20	3.5	15	13	9	1.5
Yellow (020)	195	155	110	20	23	20	13	2	10	8	6	1
Orange (035)	150	120	83	15	18	15	10	2	7.5	6.5	4.5	1
Red (030)	60	48	33	6	7	6	4	1	3	2.5	2	0.5
Green (060)	30	24	17	3	3.5	3	2	0.5	1.5	1	1	#
Blue (050)	19	16	11	2	2.5	2	1.5	0.5	1	0.5	0.5	#

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Table 2 - Specific coefficient of retroreflection, Fluorescent colour R' in cd / (lx m²) (New condition; DIN 67520: 2008-11 RA3B; Design C)

Observation Angle	0.33°				1.00°				1.50°			
Entrance angle	5°	20°	30°	40°	5°	20°	30°	40°	5°	20°	30°	40°
fl. yellow-green (029)	240	190	130	24	28	24	16	2.5	12	10	7	1
fl. yellow (037)	195	155	110	20	23	20	13	2	10	8	6	1
fl. Orange (038)	90	70	30	9	10	9	6	1	4.5	4	2.5	#

Table 3 - Chromaticity coordinates (Colour specification limits at daylight; New condition; DIN 6171-1: 2013-10)

Colours	1		2		3		4		Luminance factor β
	x	y	x	y	x	y	x	y	
White (010)	0.305	0.315	0.335	0.345	0.325	0.355	0.295	0.325	> 0.27
Yellow (020)	0.494	0.506	0.470	0.480	0.513	0.437	0.545	0.455	> 0.16
Red (030)	0.735	0.265	0.700	0.250	0.607	0.343	0.655	0.345	□ 0.03
Green (060)	0.007	0.703	0.216	0.448	0.147	0.400	0.018	0.454	□ 0.03
Blue (050)	0.100	0.109	0.146	0.156	0.183	0.115	0.137	0.038	□ 0.01

Table 4 - Chromaticity coordinates, Fluorescent colour (Colour specification limits at daylight; New condition; DIN 6171-1: 2013-10)

Colours	1		2		3		4		Luminance factor β	Fluo. Luminance factor βF
	x	y	x	y	x	y	x	y		
fl. yellow-green (029)	0.373	0.625	0.358	0.549	0.427	0.483	0.465	0.535	□ 0.60	□ 0.35
fl. yellow (037)	0.545	0.455	0.487	0.423	0.427	0.483	0.465	0.535	□ 0.45	□ 0.25

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Colours	1		2		3		4		Luminance factor β	Fluo. Luminance factor βF
	x	y	x	y	x	y	x	y		
fl. Orange (038)	0.570	0.430	0.506	0.404	0.569	0.341	0.655	0.345	≥ 0.30	≥ 0.18

Certificates

- ORALITE 6910 - CE 0913-CPD-2013-05 - de - 2016-03-30 - Zertifikat.pdf (Download)
- 2018-04-16 Orafol 6910 0913-CPR-2018-01-1.pdf (Download)
- ORALITE 6910fl CE 0913-CPR-2016-10 - de - 2016-09-27 - Zertifikat-1.pdf (Download)
- 2021-07-29 Orafol 6910 0913-CPR-2018-01 Anlage.pdf (Download)
- 2018-04-16 Orafol 6910 0913-CPR-2018-01 Anlage-1.pdf (Download)
- ORALITE 6910 - CE 0913-CPD-2013-05 - de - 2017-02-06 - Anlage.pdf (Download)
- ORALITE 6910 fl - CE 0913-CPR-2016-10 - de - 2016-09-27 - Anlage.pdf (Download)
- DoP6910.001.20220208-DE.pdf (Download)
- DoP6910FL.001.20220208-DE.pdf (Download)
- ORALITE 6910 - CE 0913-CPD-2013-05 - en - 2016-03-30 - Certificate-1.pdf (Download)
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- 2018-04-16 Orafol 6910 0913-CPR-2018-01 UK.PDF (Download)
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