



KIWACAL PHF Series

Technical Bulletin

Description

KIWACAL PHF Series Sheeting is a high performance photoluminescent film which is self illuminating in the dark. It absorbs and accumulates light energy from the sun, electric lighting, lamps etc.

The cycle: absorption- accumulation- luminosity is permanent for the life of the film as long as an energy source such as sunlight is available. **KIWACAL PHF** Series Sheeting has a special top coat that provides long outdoor durability.

Non-Health Hazard

The pigment used for **KIWACAL PHF** Series Sheeting does not contain any substance of cadmium, lead, mercury, arsenic and chromium.

Applications

KIWACAL PHF Series Sheeting is recommended to use for warning signs, exit signs, emergency signs or for marking escape routers in subways, tunnels, mines, elevators, stairways, public convenience and other specific areas in case of electricity power failure.

Type	Standard size	Luminosity
PHF-P2	500mm x 30m	241
PHF-60	500mm x 30m	102

* Luminosity values are measured in accordance with DIN 67510 Part 1
PHF-P2 complies with DIN 67510, IMO MSO 61/6/2, JIS Z 9100

Luminosity

Condition	PHF-P2	PHF-60
after 1 min	241	102
after 5 min	61	15
after 10 min	30	6.7
after 60 min	3.8	0.4
after 100 min	2.0	0.2
after 200 min	0.8	-
after 300 min	0.65	-

Technical Data

Tensile strength	15mm wide specimen – 200mm/min	> 2,5 kg/cm
Shrinkage	100mm ² aging 80°C x 48 h	< 0.9mm
Elongation	15mm wide specimen – 200mm/min	> 50%
Adhesion strength	180°C peeling, 300mm/min	> 0.8 kg/cm

Please notice that substrates have to be free of dust and silicones, furthermore prints have to be completely cured, otherwise adhesion cannot be guaranteed. It is advisable to carry out some application tests to check the compatibility with different types of substrate. Please adhere to the manufacturer's application instructions.

All the technical information given herein are based on tests we have conducted, but the accuracy nor completeness is not guaranteed. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability.

