

ORALITE®
Engineered to Save Lives



Reflective Solutions

ORALITE® Marine Application

Reflective Tapes and Films

ORAFOL
ENGINEERED
FOR EXCELLENCE



Symbols and Certifications

Application Symbols



Heat applied



Sew-on



Adhesive

Certifications

IMO Res. MSC.481(102) Type I/II

International Maritime Organization resolution defining testing and performance for immersion suits and protective gear used on ships (Type I and II).

USCG 46 CFR, section 164.018

U.S. Coast Guard regulation specifying approval requirements for life-saving appliances and marine safety equipment.

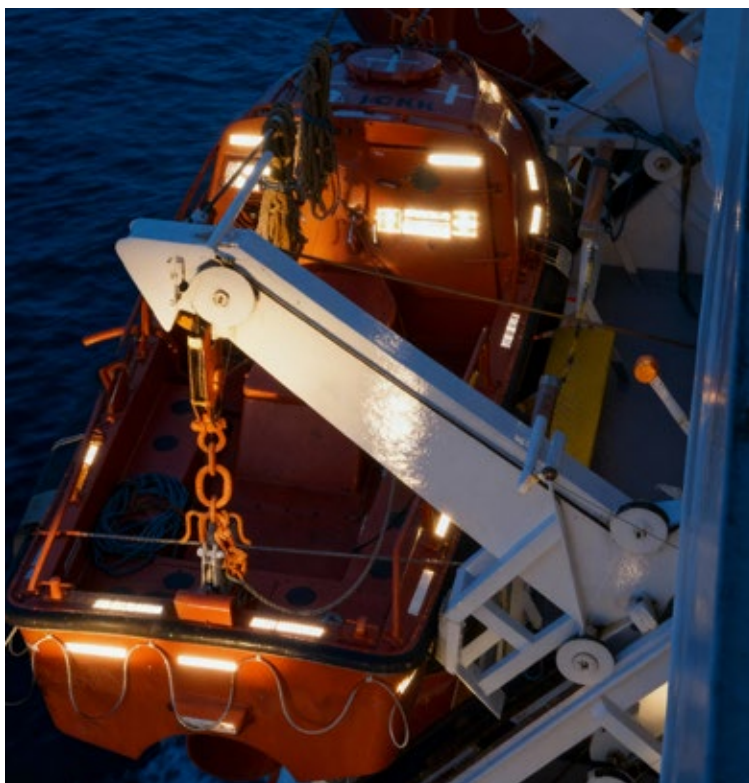
MED Ship's wheel mark/UK Red Ensign

Certification marks showing compliance with the Marine Equipment Directive (EU) or UK maritime standards for equipment on board vessels.

Engineered to Save Lives

For more than four decades, ORALITE® reflective tapes and films have set standards in maritime safety.

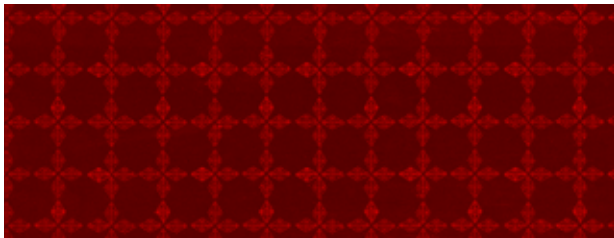
Developed for use on non-inflatable and inflatable life jackets, lifeboats, and heavy-duty marine rainwear, they are based on advanced microprismatic technology that provides superior retroreflective performance and ensures reliable long-distance visibility during nighttime search and rescue operations. ORALITE® solutions comply with relevant SOLAS/IMO requirements and are approved by recognized authorities, including Bureau Veritas (BV) in Europe and the United States Coast Guard.



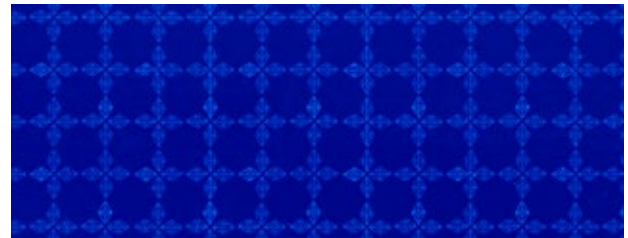
Product Overview - Prismatic Tapes and Films

Product	Colour	Using	Property	Delivery			Application		Resistance		Certification	
				Standard width (mm)	Rolls	Pre-Cut-Sticker	Textile sew-on backing	Pressure-sensitive adhesive	Seawater	Temperature		
Prismatic Film	ORALITE® VC 310 Marine	<ul style="list-style-type: none"> ● 012 Red ● 018 Yellow ● 023 Blue ● 027 Green 	<ul style="list-style-type: none"> • Fixed substrates for marine environments 	<ul style="list-style-type: none"> • UV-stabilised • Weather resistant • Solvent resistant • Flexible 	775	✓	-	-	✓	✓	✓	Not SOLAS-approved
	ORALITE® FD 1403	● 015 Silver	<ul style="list-style-type: none"> • Life jackets • Buoys • Protective equipment • Boats with solid surfaces 	<ul style="list-style-type: none"> • Abrasion resistant • Flexible • Waterproof 	50	✓	✓	✓	✓	✓	✓	Type I applications IMO Res. MSC.481(102) Type II applications IMO Res. MSC.481(102) USCG 46 CFR, section 164.018 MED Ship's wheel mark/UK Red Ensign
	ORALITE® FD 1404 Imo Flex	● 015 Silver	<ul style="list-style-type: none"> • Inflatable life vests • Inflatable boats • Other inflatable marine equipment 	<ul style="list-style-type: none"> • PVC construction • Abrasion resistant • Flexible • Waterproof 	50	✓	✓	-	✓	✓	✓	Type I applications IMO Res. MSC.481(102) USCG 46 CFR, section 164.018 MED Ship's wheel mark/UK Red Ensign
ORALITE® FD 1405	● 015 Silver	<ul style="list-style-type: none"> • Non-inflatable and inflatable life jackets, life vests and life rafts • Buoys • Non-inflatable and inflatable boats • Protective equipment 	<ul style="list-style-type: none"> • PVC construction • Abrasion resistant • Flexible • Waterproof 	50	✓	✓	-	✓	✓	✓	Type I applications IMO Res. MSC.481(102) Type II applications IMO Res. MSC.481(102) MED Ship's wheel mark/UK Red Ensign	

ORALITE® VC 310 Marine



012 Red



023 Blue



018 Yellow



027 Green

Metallized reflective material for marine applications



ORALITE® FD 1403



015 Silver

SOLAS-compliant marine reflective tape



ORALITE® FD 1404 Imo Flex

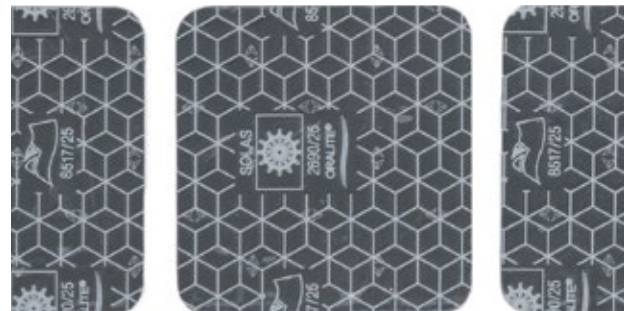


015 Silver

Flexible SOLAS-compliant marine reflective tape



ORALITE® FD 1405



015 Silver

Flexible SOLAS-compliant marine reflective tape





Reflective Films

ORALITE® reflective films are designed to produce temporary and permanent traffic signs, as well as compliant vehicle markings. Various reflection classes and technologies allow precise alignment with national standards and specific project requirements.



Learn more about
Reflective Solutions.

Reflective Solutions

ORAFOL is one of the world's leading developers and manufacturers of retroreflective solutions. Under the ORALITE® brand, high-performance reflective films and tapes based on prism and glass bead technology are offered worldwide for a wide range of applications.



Reflective Tapes

ORALITE® reflective tapes deliver excellent retroreflective performance, improving visibility and safety in personal safety, even at long distances and in challenging lighting or weather conditions.



Printing Technology

Comprehensive services in digital and screen printing are supported by accessories such as protective laminates and application tapes, ensuring efficient processing and long-lasting durability.

ORAFOL Europe GmbH
Orafolstrasse 1
D-16515 Oranienburg
Germany

Phone +49 (0)3301 864-0
reflective.solutions@orafol.de
www.orafol.com

