



ACRYLIC SHEET

**ALTUGLAS®  
RANGE FOR  
BOATS**

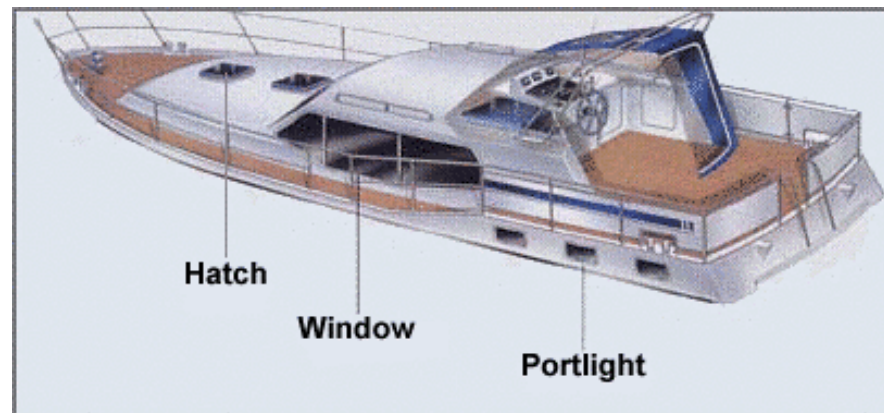
# The Altuglas International cast range

## Glazing

transparent colors

Essential (solvent resistant)

Heat Protection



# Boat Glazing

## Cast transparent colors:

### Advantages:

**Weight reduction**

**Optical properties (Light transmission, transparency...)**

**Wide range of colors and thickness**

**Weathering in marine conditions**



## Altuglas® Essential:

### Advantages:

**Excellent weathering in extreme marine conditions (salty...)**

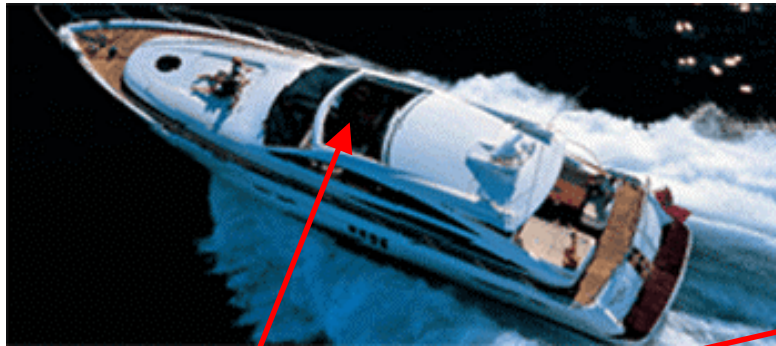
**Excellent solvent resistance: no crazing in salty conditions**

**Wide range of colors and thickness**





## Altuglas® Heat and UV Protection:

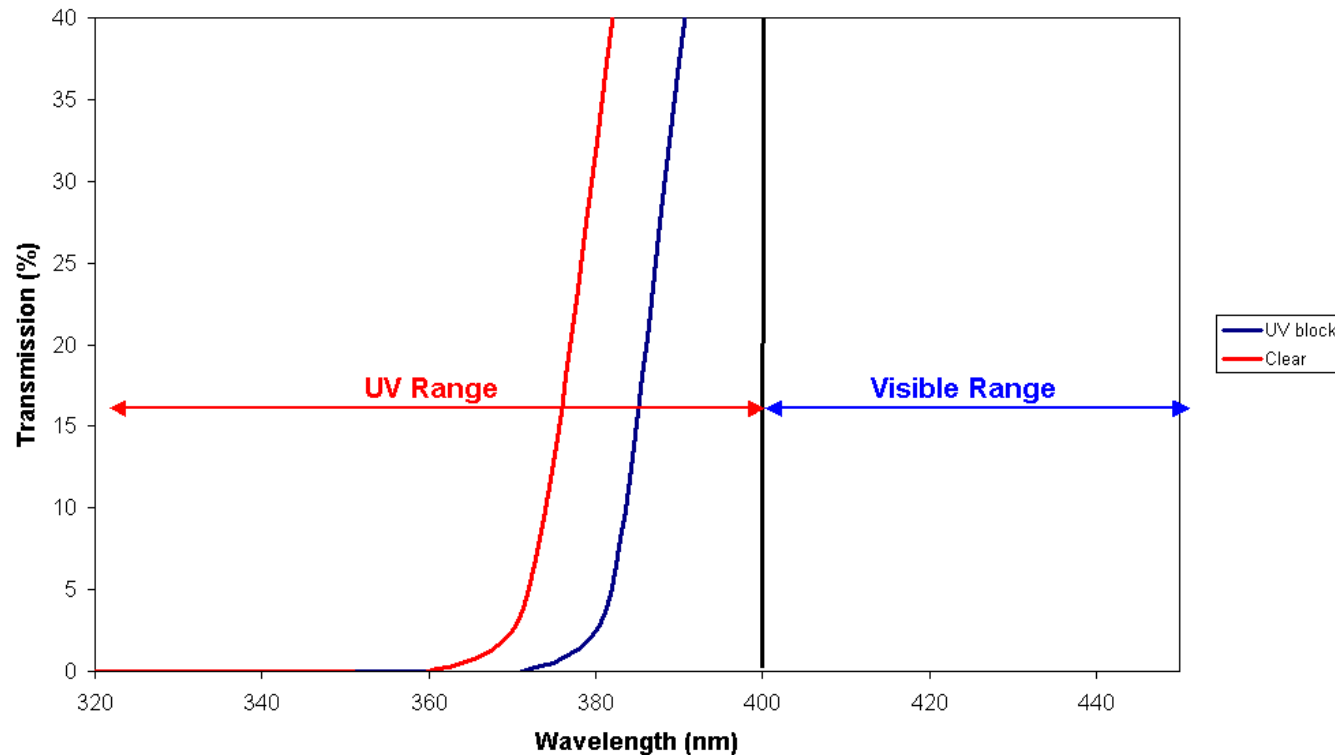


**For big size when in direct contact with the cabin**

**In sunny environment**

**⇒ Big temperature increase inside the cabin**

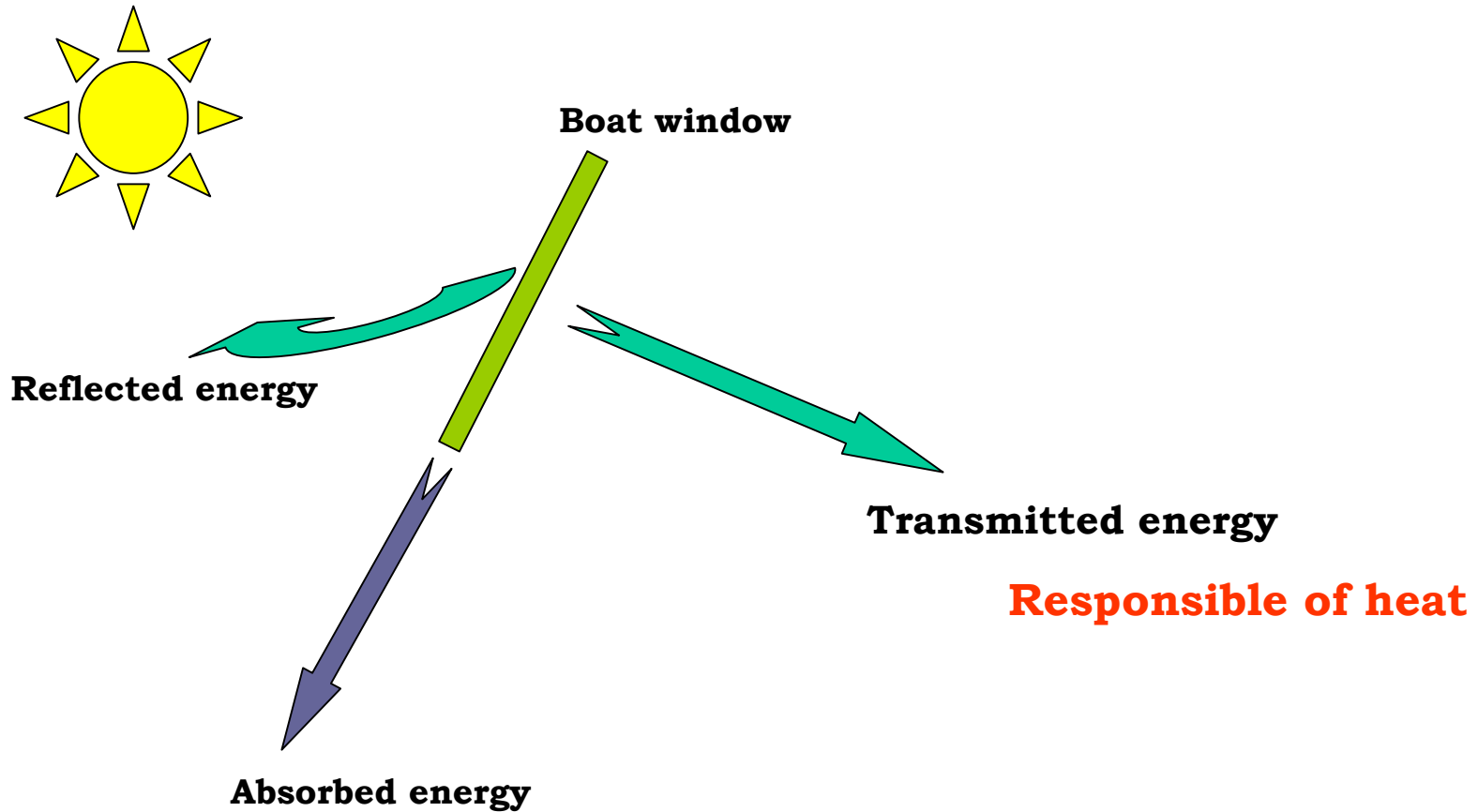
## UV filtration for skin protection



⇒ **No transmission in the UV range**

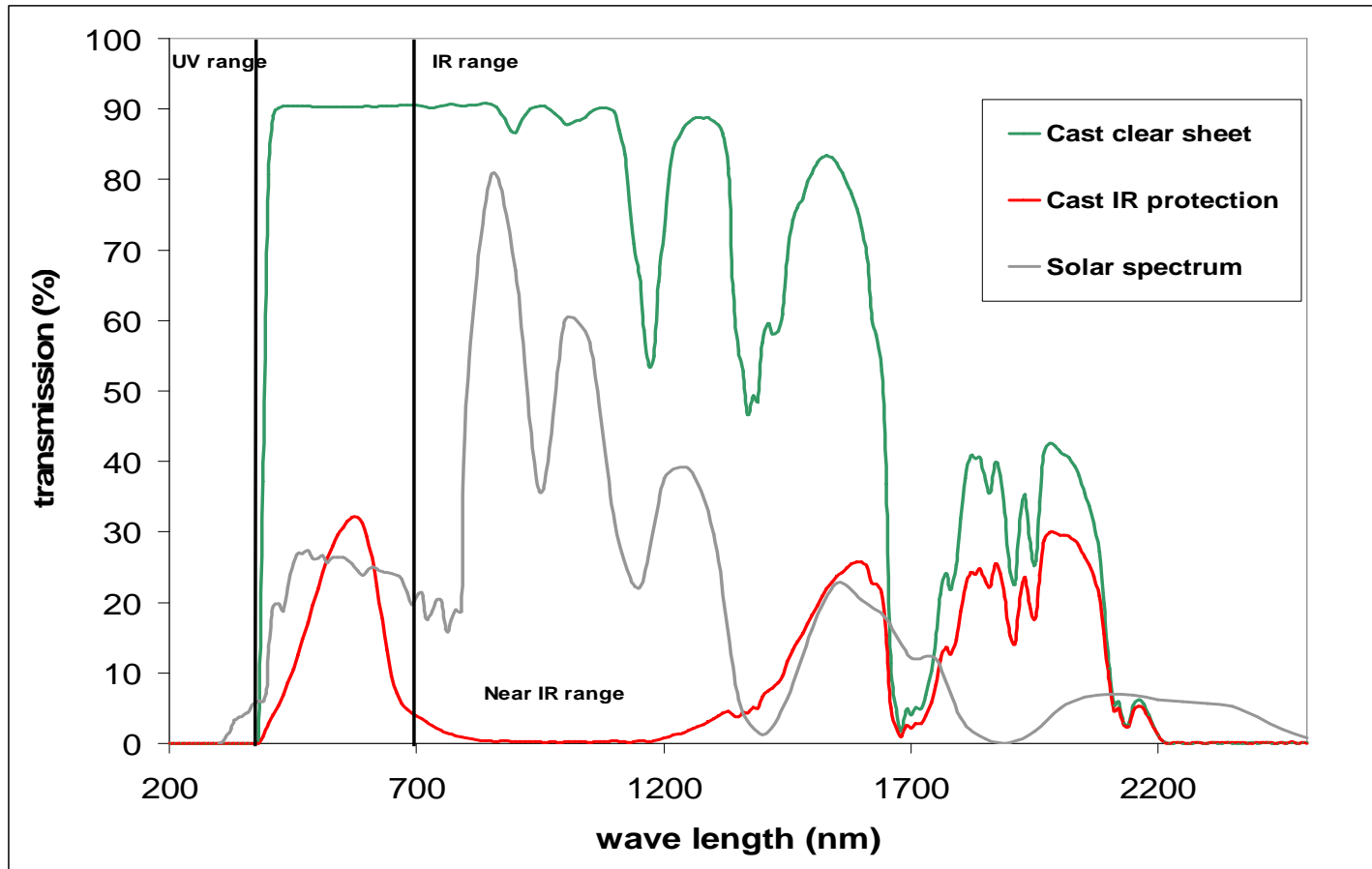
**≈ 0% of LT up to 380nm**

# Heat protection



**Goal: Decrease transmitted energy**  
**Increase both absorbed and reflected energies**

# Heat protection



⇒ **Green color**

⇒ **Transparent**

⇒ **No transmission in the near IR range (heating zone)**



# Heat protection

**Two energetic parameters:**

- **Transmitted energy (%):  $\tau_e$  (300 – 2500nm)**
- **Reflected energy (%):  $\rho_e$  (300 – 2500nm)**

**Altuglas® performances:**

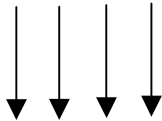
**Transmission: 22,6%**

**Color: L=48,8 / a\*=-9,45 / b\*=6,8**

	<b>Transmitted energy (<math>\tau_e</math>)</b>	<b>Reflected energy (<math>\rho_e</math>)</b>
<b>Cast clear</b>	<b>80%</b>	<b>6,6%</b>
<b>Cast IR protection</b>	<b>9,8%</b>	<b>4.5%</b>

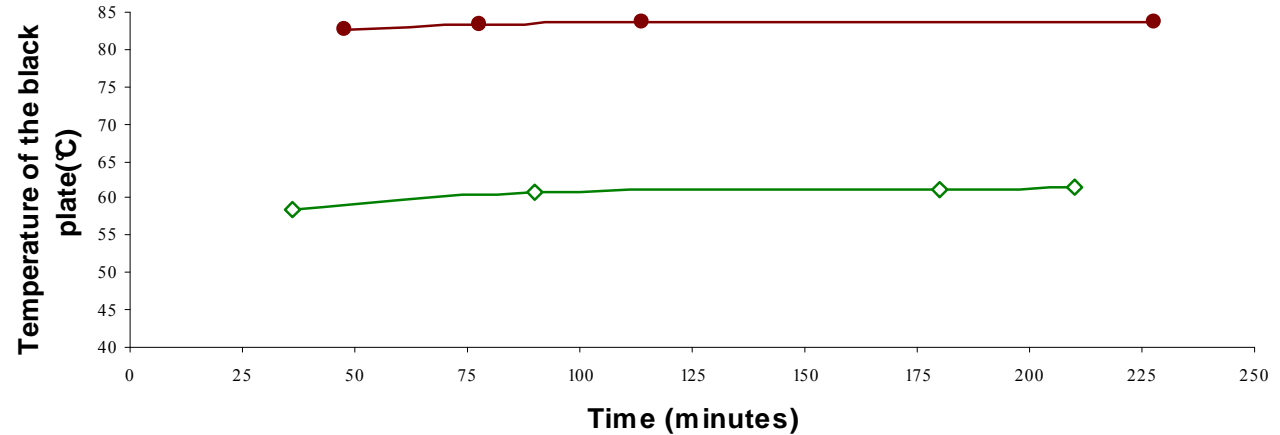
# Heat protection

Solar spectrum  
Xenon lamp



Black body plate

Temp°C measurement



◇ Cast IR Protection

● Cast clear sheet + UV absorber

**After 200 min of exposure:**

**CN: T° = 83°C**

**IR protection: T= 61°C**

**⇒ 20°C less hot!**

## Heat protection

### Range:

**Thickness: from 3 to 15mm**

**Colour: green**

**Slight color adaptation possible**

**Size: 3050 x 2030 mm**

**Can be combined with the essential effect**