

## 1. Products for horticulture applications

- f | PAR900 T** Cost-efficient mid-iron float glass. Thermally toughening is optional.
- f | PAR910 T** Low-iron float glass with optimized optical properties and higher transmittance in the UV range. Thermally toughening is optional.
- f | PAR935 HT** Thermally toughened low-iron float glass, performed with a single-side ultra-durable antireflection coating “HT”.
- f | PAR960 HT** The top-quality product of our horticulture glass family. Thermally toughened and performed with a double-side ultra-durable antireflection coating, which enhances the light transmission considerably.

## 2. Optical properties

	Normal transmittance <i>T<sub>n</sub></i> (1)	Hemispherical transmittance <i>T<sub>hem</sub></i> (3), (4)	Normal transmittance <i>UV</i> (4), (5)	Normal transmittance @ 320 nm (4)
Method	WUR-TNO	WUR-TNO		
Standard	NEN 2675	NEN 2675	EN 410	
<b>f   PAR900 T</b>	≥ 90 %	83 %	67 %	22 %
<b>f   PAR910 T</b>	≥ 91 %	84 %	85 %	71 %
<b>f   PAR935 HT</b>	94,0 % ± 1,0 (2)	87,0 %	88 %	74 %
<b>f   PAR960 HT</b>	96,5 % ± 1,0 (2)	89,5 %	90 %	76 %

(1) Photosynthetically Active Radiation (T normal) standardized to 4 mm thickness

(2) Measured after a purification- and tempering process

(3) Photosynthetically Active Radiation (T hemispherical) standardized to 4 mm thickness

(4) Typically values standardized to 4 mm thickness

(5) Ultraviolet radiation standardized to 4 mm thickness

Report optical lab Wageningen UR Greenhouse Horticulture is available on request

### 3. Glass properties

	Cut	Thermally toughened "T"	Antireflection coated "HT"
Density (at 18°C)	2500 kg / m <sup>3</sup>		
Thickness	4 mm ± 0,2 mm and 5 mm ± 0,2 mm		
Thermally toughened	No	Yes	Yes
Mechanical strength	≥ 45 x 10 <sup>6</sup> Pa	≥ 120 x 10 <sup>6</sup> Pa	
Maximum dimension	2600 mm x 2200 mm	2600 mm x 1500 mm	
Tolerance	Length of edge: ± 1 mm		
Rectangularity	Difference between diagonals: ≤ 3 mm		
Edge	Cut edge	Ground edge RK2 (C-edge)	
Local warp	n/a	0,5 mm / 300 mm	
Global warp	n/a	3 mm / m	
Longitudinal bubbles (core size)	≤ 3 mm: Unlimited > 3 mm to 10 mm: Maximum 4 per sheet > 10 mm: Not allowed		
Other point blemishes	≤ 0,5 mm: Unlimited > 0,5 mm to 2,0 mm: Maximum 2 per sheet > 2,0 mm: Not allowed		
Chips (l x w x d)	n/a	Maximum 10 mm x 2,5 mm x 1 mm	

### 4. Conformity

The basic glass for products referred to 1. is according to DIN EN 572-2 latest version - Glass in building - Basic soda lime silicate glass products - Part 2: Float glass.

Thermally toughened products referred to 1. are according to DIN EN 12150 et. seq. latest version - Glass in building - Thermally toughened soda lime silicate safety glass.

Products with coating referred to 1. are according to DIN EN 1096 et. seq. latest version - Glass in building - Coated glass.