

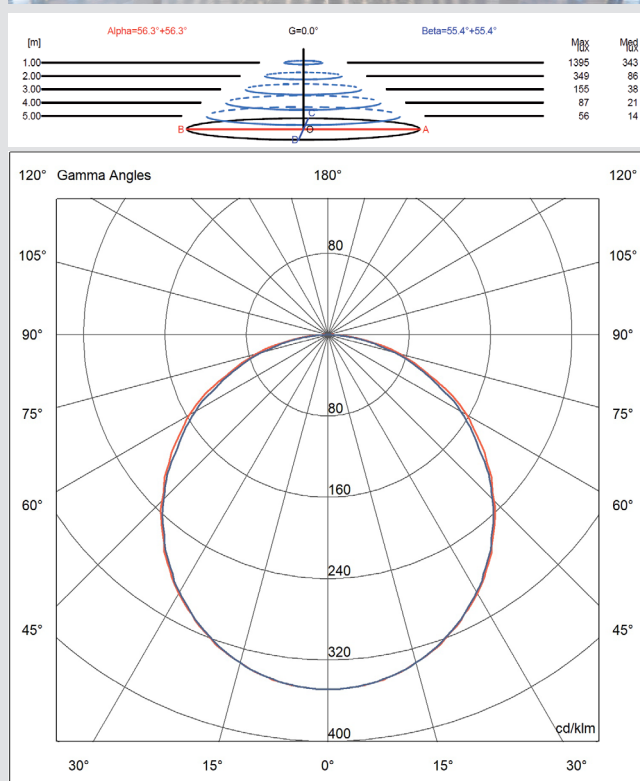
# NUDEC PC iFrost

NUDEC PC iFrost is a new extruded frosted polycarbonate sheet with a satinized effect on one side and a matt surface on the other side.

This being our latest developed product for indoor LED lighting, it offers an optimum combination of light transmission and light diffusion, whilst also offering excellent impact strength, heat stability and fire resistance. This product incorporates a new light diffusion technology based on micro beads, which allows an optimum balance between high transmittance and uniform light dispersion.



12/2022



Light distribution as simulated in reference luminaire (ldt file available upon request).

## APPLICATIONS

- Interior lighting designs
- Office lighting and security
- Signage and illuminated objects
- Tradeshow booths and retail lighting
- Automotive industry
- Wall paneling in architectural applications

## PROPERTIES

The typical of NUDEC PC, as well as the following special features:

- High light transmission
- Excellent light diffusion
- Uniform dispersion of light
- Optimized covering of the LED hot spot
- Anti-glare
- High impact resistance
- High temperature resistance
- Thermoformable and easily processable

## TECHNICAL DATA

	CODE	UNIT	VALUE
<b>PHYSICAL</b>			
Density	ISO 1183	g/cm <sup>-3</sup>	1,2
<b>MECHANICAL</b>			
Charpy impact (notched)	ISO 179/1eA	kJ·m <sup>-2</sup>	4
Charpy impact (unnotched)	ISO 179/1eU	kJ·m <sup>-2</sup>	No break
<b>OPTICAL</b>			
Light transmission (2 mm)	ASTM D-1003	%	75
Clarity	ASTM D-1003		<8
Half-power angle (2 mm)	-	°	56
<b>THERMAL</b>			
Temp. VICAT (50 N)	ISO 306	°C	135
HDT / A (1,8 MPa)	ISO 75A	°C	122

## PRODUCT RANGE

- Color: Ref. 642 iFrost
- Size: 2.500 x 1.250 mm
- Thickness: 2, 3 and 4 mm

NUDEC PC iFrost is a special product to be manufactured upon request. Please contact us for further information about availability, minimum order quantity or sizes.