Physical Properties

Light Transmission

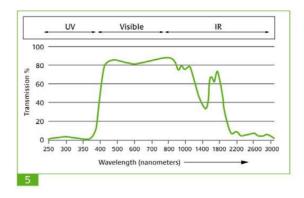
The sunlight which reaches the surface of the earth has a wavelength that ranges between 295 – 2140 nanometres (10E-9 metres). This optical window is divided into the following sections:

UV-B Middle ultraviolet region
UV-A Near ultraviolet region
Visible light region
Near infra-red region
Middle infra-red region

280 - 315 nm
315 - 380 nm
380 - 780 nm
780 - 1400 nm
1400 - 3000 nm

As shown in fig. 5, Lexan Thermoclear sheet has the highest transmission in the visible light.

Despite transmitting visible light very well, Lexan Thermoclear sheet is almost opaque to radiation in the UV and far infra-red region. This useful shielding property can prevent discolouration of sensitive materials such as fabrics or other organic materials placed under or behind Lexan Thermoclear sheet glazing in, for example, a factory warehouse, museum or shopping centre.



Light Transmission Spectrum of Lexan Thermoclear sheet

