

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ Sheet LT2UV105R175

- Intended use:
For internal and external use in roofs, walls and ceilings
- Manufacturer:
SABIC
Plasticslaan 1
4612 PX Bergen op Zoom
Netherlands
Tel. +31164293684
Fax: +31164293272
Email: sfs.info@sabic-ip.com
- System of assessment and verification of constancy of performance (ACVP):
System 3
- Harmonized standard:
EN 16153: 2013 Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings – Requirements and test
- Declared performance:

| Essential characteristics | Performance |
|--|---|
| External fire performance | F _{ROOF} (NPD) |
| Reaction to fire | B, s1, do |
| Resistance to fire | NPD |
| Water vapour permeability | $3,8 \times 10^{-5}$ mg/m·h·Pa |
| Water/air permeability | Pass |
| Release of dangerous substances | NPD |
| Dimensional tolerances | Pass |
| Shatter properties (safe breakability) as: | |
| - Small hard body impact resistance | Pass |
| - Large soft body impact resistance (assembly) | Pass |
| (deformation behaviour) | B _x = 48 Nm ² /m B _y = 21 Nm ² /m S _y = 2700 N/m M _b = 41 Nm/m |
| Direct airborne sound insulation | R = 19 dB |
| Thermal transmittance | U = 2,48 W/m ² ·K |

| | | | | |
|--|------------|---|---------|--------------|
| Light transmittance | | τ_v | | |
| Total solar energy transmittance | | g | | |
| Solar direct transmittance | | τ_e | | |
| | Colour | τ_v (%) | g (%) | τ_e (%) |
| | Clear | 65 | 65 | 61 |
| | Opal White | 60 | 59 | 58 |
| | Bronze | 37 | 58 | 42 |
| Resistance to fixings | | Method of fixing (see manufacturer's datasheet) | | |
| Durability, as variation (after ageing): | | | | |
| - of yellowness index | | 2 (ΔA) clear 5 (ΔA) coloured | | |
| - of the light transmittance | | 2 % (ΔA) | | |
| - of deformation flexural modulus | | Cu 1 | | |
| -of tensile strength | | Ku 1 | | |

6. The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

P. van den Bleek

Bergen op Zoom, 8-1-2015

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