

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ Sheet LTD102RS17

- Element allowing identification of the construction product:
Unique product name.
See product label for traceability.
- Intended use:
For internal and external use in roofs, walls and ceilings
- Manufacturer:
SABIC
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Netherlands
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- System of Assessment and Verification of Constancy of Performance (AVCP):
AVCP System 3 for all characteristics
- In case of the declaration of performance concerning a construction product covered by a harmonized standard:
WFRGENT (Notified Body 1173), performed testing of the reaction to fire (based on sampling carried out by the manufacturer) under system 3.
- Declared performance:
All characteristics listed in the table below are determined following 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) | | $B_x = 53 \text{ Nm}^2/\text{m}$ $B_y = 28 \text{ Nm}^2/\text{m}$ $S_y = 2035 \text{ N/m}$ $M_b = 33 \text{ Nm/m}$ | | |
| Direct airborne sound insulation | | $R = 18 \text{ dB}$ | | |
| Thermal transmittance | | $U = 3.02 \text{ W/m}^2\cdot\text{K}$ | | |
| Light transmittance | | τ_v | | |
| Total solar energy transmittance | | g | | |
| Solar direct transmittance | | τ_e | | |
| | Colour | τ_v (%) | g (%) | τ_e (%) |
| | Clear | 81 | 80 | 76 |
| | Opal White | 64 | 68 | 62 |
| | Bronze | 35 | 55 | 44 |
| 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 | | |

8. 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, 21-01-2016



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