

# DECLARATION OF PERFORMANCE

## LEXAN™ THERMOCLEAR™ Sheet LT2UV169X

- 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  
Plasticslaan 1  
4612 PX Bergen op Zoom  
Netherlands  
Tel. +31164293684  
Fax: +31164293272  
Email: sfs.info@sabic.com
- 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 <sub>ROOF</sub> (NPD)          |
| Reaction to fire                | B, s1, d0                        |
| Resistance to fire              | NPD                              |
| Water vapour permeability       | 3,8 × 10 <sup>-5</sup> 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)                        |            | $B_x = 142 \text{ Nm}^2/\text{m}$<br>$B_y = 101 \text{ Nm}^2/\text{m}$<br>$S_y = 14068 \text{ N/m}$<br>$M_b = 29 \text{ Nm/m}$ |         |              |  |
| Direct airborne sound insulation               |            | $R = 18 \text{ dB}$  |         |              |  |
| Thermal transmittance                          |            | $U = 1,77 \text{ W/m}^2\cdot\text{K}$  |         |              |  |
| Light transmittance                            |            | $\tau_v$   |         |              |  |
| Total solar energy transmittance               |            | $g$  |         |              |  |
| Solar direct transmittance                     |            | $\tau_e$   |         |              |  |
|  | Colour     | $\tau_v$ (%)   | $g$ (%) | $\tau_e$ (%) |  |
|  | Clear      | 54   | 54      | 51           |  |
|  | Opal White | 47   | 49      | 45           |  |
|  | Bronze     | 28   | 41      | 31           |  |
| Resistance to fixings                          |            | Method of fixing (see manufacturer's datasheet)  |         |              |  |
| Durability, as variation (after ageing):       |            |  |         |              |  |
| - of yellowness index                          |            | 2 ( $\Delta A$ ) clear<br>5 ( $\Delta A$ ) colored   |         |              |  |
| - of the light transmittance                   |            | 2 % ( $\Delta A$ )   |         |              |  |
| - 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, 20-1-2016

---

## CONTACT US:

### Europe

SABIC  
Functional Forms  
Plasticslaan 1  
4612 PX  
Bergen op Zoom  
The Netherlands

T +31 (0)164 293678  
F +31 (0)164 293272  
E [sfs.info@sabic.com](mailto:sfs.info@sabic.com)

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC and brands marked with ™ are trademarks of SABIC or its subsidiaries or affiliates.

© 2016 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.

[www.sabic.com/sfs](http://www.sabic.com/sfs)

---