

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ SHEET 2UVIR105R175

- 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
Tel. +31164293684
Fax: +31164293272
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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, d0
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)	$B_x = 48 \text{ Nm}^2/\text{m}$ $B_y = 21 \text{ Nm}^2/\text{m}$ $S_y = 2700 \text{ N/m}$ $M_b = 41 \text{ Nm/m}$								
Direct airborne sound insulation	$R = 19 \text{ dB}$								
Thermal transmittance	$U = 2,48 \text{ W/m}^2\cdot\text{K}$								
Light transmittance	τ_v								
Total solar energy transmittance	g								
Solar direct transmittance	τ_e								
	<table border="1"> <thead> <tr> <th>Colour</th> <th>τ_v (%)</th> <th>g (%)</th> <th>τ_e (%)</th> </tr> </thead> <tbody> <tr> <td>GN8B038T</td> <td>48</td> <td>48</td> <td>34</td> </tr> </tbody> </table>	Colour	τ_v (%)	g (%)	τ_e (%)	GN8B038T	48	48	34
Colour	τ_v (%)	g (%)	τ_e (%)						
GN8B038T	48	48	34						
Resistance to fixings	Method of fixing (see manufacturer's datasheet)								
Durability, as variation (after ageing):									
- of yellowness index	4 (ΔA)								
- of the light transmittance	4% (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, 09-12-2019

CONTACT US:

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