

# DECLARATION OF PERFORMANCE

## LEXAN™ THERMOCLEAR™ Sheet LT2UV105R175

- 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  
Email: sfs.info@sabic-ip.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	$3,8 \times 10^{-5}$ 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		$\tau_v$		
Total solar energy transmittance		$g$		
Solar direct transmittance		$\tau_e$		
	Colour	$\tau_v$ (%)	$g$ (%)	$\tau_e$ (%)
	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 ( $\Delta A$ ) clear 5 ( $\Delta A$ ) coloured		
- 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:

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