

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ Sheet LT2UV102RS17

- 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
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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)		$B_x = 53 \text{ Nm}^2/\text{m}$ $B_y = 28 \text{ Nm}^2/\text{m}$ $S_y = 2035 \text{ N/m}$ $M_b = 33 \text{ Nm/m}$			
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	$\tau_v (\%)$	$g (\%)$	$\tau_e (\%)$	
	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		ΔA clear ΔA coloured			
- of the light transmittance		$\Delta \tau_v (\%)$			
- 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

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