

# DECLARATION OF PERFORMANCE

## LEXAN™ THERMOCLEAR™ Sheet LT2UV163TS27

- 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-ip.com
- System of assessment and verification of constancy of performance (ACVP):  
System 3
- 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, 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 <sub>x</sub> = 205 Nm <sup>2</sup> /m B <sub>y</sub> = 58 Nm <sup>2</sup> /m S <sub>y</sub> = 2300 N/m M <sub>b</sub> = 57 Nm/m
Direct airborne sound insulation	R = 20 dB
Thermal transmittance	U = 2,27 W/m <sup>2</sup> ·K

Light transmittance		$\tau_v$		
Total solar energy transmittance		$g$		
Solar direct transmittance		$\tau_e$		
	Colour	$\tau_v$ (%)	$g$ (%)	$\tau_e$ (%)
	Clear	74	78	70
	Opal White	63	69	60
	Bronze	32	53	38
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		

6. 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, 8-1-2015

## CONTACT US:

Europe  
Specialty Film & Sheet  
Plasticslaan 1  
4612 PX  
Bergen op Zoom  
The Netherlands

T +31 (0)164 293678  
F +31 (0)164 293272  
E sfs.info@sabic-ip.com

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

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