

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ Sheet LTD163TS27

- 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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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 (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, 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)		$B_x = 200 \text{ Nm}^2/\text{m}$ $B_y = 58 \text{ Nm}^2/\text{m}$ $S_y = 3000 \text{ N/m}$ $M_b = 70 \text{ Nm/m}$		
Direct airborne sound insulation		$R = 20 \text{ dB}$		
Thermal transmittance		$U = 2.27 \text{ W/m}^2\cdot\text{K}$		
Light transmittance		τ_v		
Total solar energy transmittance		g		
Solar direct transmittance		τ_e		
	Colour	τ_v (%)	g (%)	τ_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 (ΔA) clear 5 (ΔA) coloured		
- of the light transmittance		2 % (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, 21-01-2016

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