

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ Sheet LT2UV82RS15

- 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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- 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)			$B_x = 29 \text{ Nm}^2/\text{m}$ $B_y = 18\text{Nm}^2/\text{m}$ $S_y = 2700 \text{ N/m}$ $M_b = 21 \text{ Nm/m}$		
Direct airborne sound insulation			$R = 17 \text{ dB}$		
Thermal transmittance			$U = 3,26 \text{ W/m}^2\cdot\text{K}$		
Light transmittance			τ_v		
Total solar energy transmittance			g		
Solar direct transmittance			τ_e		
	Colour	τ_v (%)	g (%)	τ_e (%)	
	Clear	81	82	77	
	Opal White	64	68	62	
	Bronze	38	59	43	
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, 20-1-2016



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