

Performance Data

Standard: RoHS Directive 2011/65/EU and [EU] 2015/863, EU REACH Regulation No 1907/2006 Article 33(1)
Obligation to provide information of safe use

REACH	Standard	Result	Remarks	Application
Fire Performance	EN 13501	Bf1-S1	SGS	Fire-Proofing Test
Pendulum Test	EN15534-1:2014	Pass	Slip Resistance Test	Safety Performance
Moisture Resistance-Boiling Test	EN15534-1:2014	Pass	-	Durability
Resistance to Artificial Weathering	EN15534-1:2014	4.5 Grade of colourfastness	2000h	Durability
Falling Mass Impact Resistance	EN15534-1:2014	Residual Indentation, No crack occurred after impact.	9mm	Mechanical Test
Bending Strength	EN15534-1:2014	Average bending strength: 71.41 MPa	-	Mechanical Test
Modulus of Elasticity	EN15534-1:2014	Average modulus of elasticity: 1164 MPa	-	Mechanical Test
Coefficient of Linear Thermal Expansion	EN15534-1:2014	Average: 37.5×10^{-6} K ⁻¹ Maximum: 41.2×10^{-6} K ⁻¹	Requirement: $\leq 50 \times 10^{-6}$ K ⁻¹	Material Performance
Density	GB/T 24508-2009	1.3	Pass	Material Performance
Swelling and water absorption	EN 15534-1:2014	Thickness swelling: 1.15% Width swelling: 0.03% Length swelling: 0.07% Water absorption: 2.12%	Pass	Material Performance
Dimension Changing Ratio of Swelling after Immersion in Water	GB/T 24508-2009	<0.1	Pass	Material Performance
Free-Thaw Resistance	GB/T 24508-2009	94%	Pass	Durability
Durability of the products against ageing and moisture	EN 15534-1: 2014	ΔL : 4.78 Δa : 2.59 Δb : 0.23 ΔE : 5.45	Visible colour change after 300 hours weathering exposure.	Durability

Updated: 19-06-2020