



Rockal Research And Development center.
Quality Control Management
e-mail: Lab@Rockal.org

Waterproofing Membrane Test Report

Product Name	Rockal Plus	Protection Surface	GRAY SLATES
Description	Waterproofing Membrane 4.5 Kg	Serial Code	E2701A33TFEM260INO22
Test Date	22/01/2025	Production Date	21/01/2025

	Test	Test Method	Values		Actual Results	Unit
			Standard	Tolerance		
Dimensional Properties	Mass/Unit Area	EN 1849-1	4.5	±5%	4.5	Kg
	Width	EN 1848-1	1	±1%	1	m
	Length	EN 1848-1	10	±1%	10	m
Thermal Properties	Flexibility at low temperature	EN 1109 ASTM D-5147	-2 : -5	-	-5	°C
	Flow Resistance at elevated temperature	EN 1110 ASTM D-5147	120	-10	Passed	°C
	Softening Point	ASTM-36	150	≥	152	°C
	penetration at 25°C	ASTM D5	20	±5	16	dmm
	penetration at 60°C	ASTM D5	70	±20	51	dmm
Mechanical Properties	Tensile Strength Longitudinal	EN 12311-1 ASTM D-5147	850	±20%	773.07	N/5cm
	Tensile Strength Transverse	EN 12311-1 ASTM D-5147	600	±20%	545.53	N/5cm
	Elongation at break Longitudinal	EN 12311-1 ASTM D-5147	40	±15	34.33	%
	Elongation at break Transverse	EN 12311-1 ASTM D-5147	45	±15	45.73	%
	Resistance To Static Loading	EN 12730	15	≥	Pass	Kg
	Resistance To Impact Loading	EN 12691	1000	≥	Pass	mm
	Adhesion to Concrete	Pelage UEATC	20	-	19.98	N/5cm
Miscellaneous Properties	Water absorption	ASTM D-5147	0.15	≤	Pass	%
	*Thermal Ageing in Air (in oven 4 weeks at 70 ±2)	EN 1296	-	-	Pass	-
	Average loss of slates	EN 12039	30	≤	2.4	%
	*UV test Weathering	UNI 8202/29	-	-	Pass	-
	Reaction To Fire	EN 13501-1	E	-	F	-
	Fire Classification- External Fire Performance	EN 13501-4	F roof	-	F roof	-

* Note: ITT Initial Type Test

Al Alamia for Insulation (Rockal) CO.
Al Badr Plaza, Aly Amin St, Mostafa El Nahas St. Ext.
Nasr City – Cairo - Egypt
E-mail : export.wpxps@rockal.org
Website : <http://www.rockal.org>

Under Certified Manufacturing Systems
ISO 9001:2015 - ISO 45001:2018 - ISO 14001:2015

