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Test Results Summary

Product Name: Roof Juice RX
Testing Laboratory: PRI Construction Materials Technologies LLC
Source Projects: 2974T0001 / 2974T0002
Test Methods: ASTM D4977, ASTM D2244, ASTM D3462

Independent laboratory testing performed by PRI Construction Materials Technologies LLC.
Results shown below summarize the PRI testing identified by the source project numbers above.

Physical Properties	Test Method	Results	Requirement
Granule Embedment, (g) 2 specimens; 50mm x 225mm Conditioned 30 min at 73.4 +/- 3.6 F 50 complete abrasion cycles	**ASTM D4977**	**Untreated: 4.4 g avg.** **Treated: 0.3 g avg.** **What it means:** Treated shingles lost about **93% fewer granules**. Treated met the <= 1.0 g requirement. Untreated did not.	**<= 1.0 g** **<= 1.0 g**
Color Difference 1 specimen each Conditioned 24 +/- 12h at 73.4 +/- 3.6 F 50 +/- 10% RH	**ASTM D2244**	**Untreated L*: 44.82** **Treated L*: 35.41** **What it means:** The treated shingle measured **noticeably darker**, creating a **deeper, richer appearance** that should be visible to homeowners after treatment. Results can vary by shingle color, age, and condition.	**Report** No pass/fail requirement
Pliability at 73 +/- 4 F, [Pass/Fail] 5 specimens; 25mm x 100mm Conditioned 2 +/- 0.1h at 73 +/- 4 F 90 degree bend around 1 in radius Visual inspection	**ASTM D3462**	**Untreated - MD** **FAIL (3 of 5 passed)** **Untreated - CMD** **Treated - MD** **Treated - CMD** **PASS (5 of 5)** **PASS (5 of 5)** **What it means:** Untreated brittle shingles **failed in both directions**, while treated shingles **passed all 5 specimens in both directions**.	**Pass: min 4 of 5** **Pass: min 4 of 5**

Source Projects

PRI Project 2974T0001 - Granule Embedment (ASTM D4977) and Color Difference (ASTM D2244).

PRI Project 2974T0002 - Pliability (ASTM D3462) on proponent-supplied shingles.