



Harmonite in HMPSA Flashing Tape

Certified lab R&D study on the potential performance, cost and operational benefits of formulating HMPSA's with Harmonite. The study revealed areas where Harmonite could simplify formulas and reduce operational complexity with equal or better performance.

	Tape A	Tape B	RSS Experimental Formulas			
Description	Nationally Branded Tape	Nationally Branded Tape	Phase 1 – Tape 5	Phase 2 – Tape 6	Phase 2 – Tape 7	Phase 2 – Tape 5
Formula	Proprietary with Harmonite®	Proprietary without Harmonite	Kalar 5215 (20%) Harmonite 70 (37%) Piccolyte S25 (20%) Indopol H100 (20%) Indopol H1900 (3%) BASF AO 1330 (0.3%)	Kalar® 5215 (22%) Harmonite 70 (45%) Piccolyte S25 (18.3%) Sylvalite RE100L (18.3%)	Kalar® 5215 (22%) Harmonite 70 (45%) Piccolyte S25 (22.9%) Sylvalite RE100L (10%)	Kalar® 5215 (18.3%) Harmonite 70 (45%) Piccolyte S25 (18.3%) Foral 105 (18.3%)
90° Peel (on SS panel at 73°F & 20°F)	2,768 gm/in 2,819 gm/in	1,823 gm/in 4,034 gm/in	1,800 gm/in 2,463 gm/in	3,450 gm/in 1,773 gm/in	3,505 gm/in 5,025 gm/in	6,841 gm/in “Low – properties could be improved with lower softening point tackifier like RE80HP”
Probe Tack	460 gm/in	571 gm/in	251 gm/in	464 gm/in	578 gm/in	798 gm/in
Shear Adhesion Failure Test (SAFT)	64° C	52° C	27° C	48° C	39° C	50° C

RSS Formulas were created by modifying & simplifying Royal Elastomer's “Kalar® eight-ingredient Architectural Tape” formula published in their Compounding Guide.

Experimental Formula samples were prepared on a Carver Press with a similar backer and similar adhesive/backer thickness as Tapes A & B. However, since the samples were not prepared on a hot melt coater, actual results may vary.

Contact RSS for an in-depth discussion of full results.

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