

ESSENTIAL R4243

FILM-TO-FILM LAMINATION PUD

Essential R4243 is an n-MP free, 33% solid, aliphatic polyurethane dispersion specifically designed to be block resistant up to 70°C and maintain flexibility and toughness below 0°C. It is able to be heat activated at 285°F and maintain exceptional film clarity after final lamination. This makes it a perfect choice for heat activated adhesives for use in film-to-film lamination for plastics, metalized film and aluminum.

KEY BENEFITS

- N-MP free
- Block Resistance
- Adhesion to PVC, PET and BoPET.
- Excellent Peel Strength
- Low Temperature Flexibility

DISCLAIMER: The information and recommendations contained herein are based on data believed to be correct. The information is offered solely for the customer's consideration, investigation and verification because of numerous factors beyond our control affecting the results of the use of products, Essential Industries, INC. makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for a particular purpose, other than that the product conforms to its applicable current standard specification. The manufacturer's only obligation shall be to replace such quantity of the product proven to be defective.

TYPICAL PROPERTIES*

Appearance	Translucent
pH.....	9.0
Solids, % by weight	33.0
Density lbs./gal	8.6
VOC Level (As Supplied)	
Lbs./Gal.	1.6
G/L.....	186
Particle Charge	Anionic
Particle Size.....	Colloidal
Activation Temperature.....	
	285 F at 2,000 PSI
Peel Strength	10 N / cm

*These values should not be interpreted as specifications.



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Film Properties

All tests were performed on coatings kept at 77°F and 50% RH for seven days before testing.

Tensile Strength, PSI	2090
Elongation at Break, %.....	250
Tests Performed on Aluminum Panels (1-Mil Dry)	
Konig Hardness (Seconds) 1 Day, 7Day	96, 113