

Certificate of Analysis

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PVP/VA E-635 DRUM 208.2L 1
PVP/VA(TM) E-635 pvp/va copolymer
Ashland Material Number: 831284

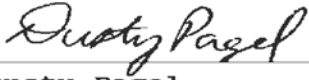
Batch:

Characteristics	Specification	Results
Appearance @ 25 deg. C- Clear Liquid	PASS	PASS
Haze (5% soln. in EtOH, SDA-40B, Hach, W445)	<= 5.5	0.8
K-Value (1% solids w/v soln in EtOH SDA-40B, W655)	30 - 45	38
ppm Vinyl Acetate (as is, GC, W872)	<= 100.0	2.4
ppm VP (HPLC W1245)	<= 50.0	0.9
% Nitrogen (on solids basis, W1161)	7.0 - 8.0	7.6
% Solids (vac oven@130 degC 45min. @10-20mm Hg, Q246)	48.0 - 52.0	49.0
% Moisture (Karl Fischer, W623)	<= 0.50	0.14
Date of Manufacture		April 10, 2015
Retest Date		April 09, 2017

Notes:

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Dusty Pagel
Quality Assurance Manager

This COA is printed from a secure computer system ensuring the batch was properly released by the Quality Department and is valid with electronic signature.

Manufactured by:
ISP TECHNOLOGIES INC.
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