

NUMBER 4854

PVP/VA W-Series copolymers

Description

PVP/VA W-Series copolymers are linear, random copolymers produced by the free-radical polymerization of the monomers in ratios 30/70 and 40/60 vinyl acetate to vinylpyrrolidone, and supplied as approximately 50% aqueous solutions.

Key Attributes

- PVP/VA polymers produce transparent, flexible, oxygen permeable films which adhere to glass, plastics and metals.
- Soluble in alcohols, esters and ketones, insoluble in ethers and aliphatic hydrocarbons. Exhibits both cohesive and adhesives properties.

Applications and Usage Notes

- In remoistenable, hot-melt adhesives.
- Spray adhesives.
- In a hot-melt adhesive for a diaper wetness indicator system.
- As a binder for dry-film photoresists, and ceramics.
- In solder masks utilizing aqueous processing.
- Improves print receptivity with respect to inkjet coatings.
- Membranes- macroporous, multi-purpose liquid filtration.

Typical Product Properties

Property	W-635	W-735
Appearance	Aqueous Viscous Liquid	Aqueous Viscous Liquid
VP/VA ratio	60 / 40	70 / 30
Color (APHA) – as is	20 max. ^a	80 max. ^a
K-Value (1% in EtOH)	26 – 34	25 – 34
% Moisture	48 – 52	48 – 52
% Solids	48 – 52	48 – 52
% Nitrogen	7.0 – 8.0	8.0 – 9.0
% Ash	< 0.3	< 0.3
Mw (PEO standards)	51,000	27,300
Polydispersity (Mw/Mn)	2.4	-
Intrinsic Viscosity [η] @ 25°C (dl/g)	-	0.265
Brookfield viscosity, cps ^b	1800	2600
Specific Gravity @ 25°C	1.113	1.110
Tg (°C)	99	114
Cloud Point (°C, 5% aq.)	68	66
Saponification Number (mg KOH/g) – as is	131	92

^a 10% Solids ^b DV-II, Spindle RV #7, 20 rpm, 22-23°C

Packaging Information

Product	Physical Form	Pkg Type	Net Wgt (lbs)	Net Wgt (kgs)
PVP/VA W-635	Liquid	HDPE Drum	450 lbs	204.1 kgs
PVP/VA W-635	Liquid	HDPE IBC	2250 lbs	1020.6 kgs
PVP/VA W-735	Liquid	HDPE Drum	450 lbs	204.1 kgs
PVP/VA W-735	Liquid	HDPE IBC	22250 lbs	1020.6 kgs

Product Safety Information

For health and safety data and handling, storage and disposal procedures, please refer to the Safety Data Sheet (SDS) and product label.

To learn more, visit ashland.com

EMAIL: specialtiessolutions@ashland.com

CHINA Tel: +86 212402 4888 DUBAI Tel: +9714 3818512 INDIA Tel: +91 22 61484646
 MEXICO Tel: +52 55 52 76 6121 SINGAPORE Tel: +65 6775 5366
 SWITZERLAND Tel: +4152 560 55 00

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