



AYAA, AYAC, AYAF, & AYAT Polyvinyl Resins Information Sheet

Characteristics:

A solid, colorless polymer based on vinyl acetate. It is virtually odorless and tasteless.

Product Data:

Melt Viscosity, 100% polymer

Bohlin high temperature viscosimeter:

	<u>AYAA</u>	<u>AYAC</u>	<u>AYAF</u>	<u>AYAT</u>
100 ⁰ C	~33000 Pa·s	~400 Pa·s	~38000 Pa·s	~42000 Pa·s
120 ⁰ C	~13000 Pa·s	~70 Pa·s	~29000 Pa·s	~21000 Pa·s
140 ⁰ C	~5000 Pa·s	~20 Pa·s	~21000 Pa·s	~9100 Pa·s
160 ⁰ C	~1600 Pa·s	~5 Pa·s	~14000 Pa·s	~3700 Pa·s

Solid Cont. Viscosity Brookfield RVT 20 RPM, 23⁰C (PML 002)

in styrene	<u>AYAA</u>	<u>AYAC</u>	<u>AYAF</u>	<u>AYAT</u>
20%	70 mPa·s		608 mPa·s	154 mPa·s
30%	292 mPa·s		6220 mPa·s	896 mPa·s
40%	1485 mPa·s		44050 mPa·s	4030 mPa·s

Storage:

To prevent caking, resins should be stored above 20⁰C. Storage conditions must be dry; material must be protected from direct sun exposure. Under these conditions the product has a shelf life of at least 24 months.

Property

Property	Test Procedures	Unit of Measure	AYAA	AYAC	AYAF	AYAT
Viscosity <small>(10% in ethylacetate)</small>	DIN 53 015 (20 ⁰ C)	Pa·s	5.75 +/- 0.75	1.2 – 1.4	26.5 +/- 3.5	9.5 +/- 1.5
Acid Number		% acetic acid	<0.005	<0.005	<1.0	<1.0
Volatiles		% by weight	<0.5	<1	<0.5	<0.5
Apparent Bulk Density	DIN 53466	g/l	675 +/- 125	550-800 kg /m ³	775 +/- 75	775 +/- 75
Supply Form			Solid pellets	Solid pellets	Solid pellets	Solid pellets
Density	DIN 53 479	g/cm ³	Ca. 1.18	Ca. 1.17	Ca. 1.18	Ca. 1.18
K Value	DIN 53 726		43 +/- 2.0	19-21	63 +/- 3.0	51 +/-3.0
Softening Pt.	ASTM: E28-97	⁰ C	106.50 +/- 3.5	68-74 ⁰ C	155 +/- 5.0	119 +/-5.0
Molecular wt.	SEC, PS Stnd		90 x 10 ³ +/- 10 x 10 ³	10000-15000	290 x 10 ³ +/- 20 x 10 ³	130 x 10 ³ +/- 20 x 10 ³
Glass Transit. Temperature	DSC (DIN 53765)	⁰ C	Ca. 42	Ca. 33	Ca. 44	Ca. 43

These figures are only intended as guides and should not be used in preparing specifications.