

®Mowiol, Kuraray Poval®

## Polyvinyl alcohol for paper applications

	Grade	Viscosity <sup>1)</sup> (mPa·s)	Hydrolysis (mol-%)	Max. Volatile (%)	Ash <sup>2)</sup> (%)
®Mowiol	3-85	3.4 - 4.0	84.2 - 86.2	5.0	0.5
	4-88	3.5 - 4.5	86.7 - 88.7	5.0	0.5
	5-88	5 - 6	86.7 - 88.7	5.0	0.5
	8-88	7 - 9	86.7 - 88.7	5.0	0.5
	13-88	11.5 - 14.5	86.7 - 88.7	5.0	0.5
	18-88	16.5 - 19.5	86.7 - 88.7	5.0	0.5
	23-88	21.5 - 24.5	86.7 - 88.7	5.0	0.5
	26-88	24.5 - 27.5	86.7 - 88.7	5.0	0.5
	40-88	38 - 42	86.7 - 88.7	5.0	0.5
	47-88	45 - 49	86.7 - 88.7	5.0	0.5
	56-88	52 - 60	86.7 - 88.7	5.0	0.5
	30-92	28 - 32	91.5 - 93.3	5.0	0.5
	3-96	2.8 - 3.8	96.8 - 97.6	5.0	1.0
	4-98	4 - 5	98.0 - 98.8	5.0	0.5
	6-98	5 - 7	98.0 - 98.8	5.0	0.5
	10-98	9 - 11	98.0 - 98.8	5.0	0.5
	20-98	18.5 - 21.5	98.0 - 98.8	5.0	0.5
	56-98	52 - 60	98.0 - 98.8	5.0	1.0
	15-99	12.5 - 17.5	99.0 - 99.8	5.0	0.5
28-99	26 - 30	99.0 - 99.8	5.0	0.5	
	Grade	Viscosity <sup>3)</sup> (mPa·s)	Hydrolysis (mol-%)	Max. Volatile (%)	Ash <sup>2)</sup> (%)
Kuraray POVAL®	PVA-102	2.7 - 2.8	98 - 99	5.0	0.7
	PVA-103	3.2 - 3.8	98 - 99	5.0	0.7
	PVA-235	80 - 110	87 - 89	5.0	0.4

1) of a 4% aqueous solution at 20 °C determined by Höppler Viscosimeter (DIN 53015)

2) calculated as Na<sub>2</sub>O

3) of a 4% aqueous solution at 20 °C determined by Brookfield synchronised-motor rotary-type viscometer

®Mowiol, Kuraray K-, R-Polymers, ®Exceval, ®Mowiflex

## Polyvinyl alcohol specialities for paper applications

defoamed	Grade	Viscosity <sup>1)</sup> (mPa·s)	Hydrolysis (mol-%)	Max. Volatile (%)	Ash <sup>2)</sup> (%)
®Mowiol	4-98 DF	4 - 5	98 - 98.8	5.0	0.5

low ash	Grade	Viscosity <sup>1)</sup> (mPa·s)	Hydrolysis (mol-%)	Max. Volatile (%)	Ash <sup>2)</sup> (%)
®Mowiol	28-99 LA	26 - 30	99 - 99.8	5.0	0.09

modified	Grade	Viscosity <sup>3)</sup> (mPa·s)	Hydrolysis (mol-%)	Max. Volatile (%)	Ash <sup>2)</sup> (%)
Kuraray K-Polymer	KL-318	20 - 30	85 - 90	5.0	n.a.
	KL-506	5.2 - 6.2	74 - 80	5.0	n.a.
Kuraray R-Polymer	R-1130	20 - 30	98 - 99	5.0	0.5
	R-2105	4.5 - 6	98 - 99	n.a.	n.a.
	R-3109	9 - 12	98 - 99	5.0	1.0
®Exceval	AQ-4104	3.8 - 4.2	98 - 99	5.0	0.4
	HR-3010	12 - 16	99 - 99.4	5.0	0.4
	RS-1113	16 - 22	97.5 - 99	5.0	0.7
	RS-1117	23 - 30	97.5 - 99	5.0	0.4
	RS-2117	23 - 30	97.5 - 99	5.0	0.4

modified, liquid	Grade	Viscosity <sup>4)</sup> (mPa·s)
®Mowiflex	FX 407	11.5 - 15.5
	FXT 283	300 - 400
	FXT 305	120 - 160
	FXT 558	170 - 230
	FX Y 478	9 - 13

1) of a 4 % aqueous solution at 20 °C determined by Höppler Viscometer (DIN 53015)

2) calculated as Na<sub>2</sub>O

3) of a 4 % aqueous solution at 20 °C determined by Brookfield synchronised-motor rotary-type viscometer

4) of an 8 % aqueous solution at 20 % determined by Höppler-viscometer

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