

# ADDITIVE SELECTION CHART PVC PLASTISOLS AND PVC COMPOUNDS



STABILIZING

VISCOSITY REDUCING

DEFOAMING



# Additives for PVC plastisols

## Viscosity depressants

Transparent	Foamed	Filled	Low emission	Low fogging
<b>Low shear rate:</b> BYK-1160*1 ● BYK-1163*1 ● BYK-1164*1 ● BYK-1166*1 ●	<b>Low shear rate:</b> BYK-1166*1 ● BYK-1160*1 ○ BYK-1163*1 ○ BYK-1164*1 ○ BYK-1165 ○	<b>Low shear rate:</b> BYK-1165 ● BYK-1160*1 ○ BYK-1163*1 ○ BYK-1164*1 ○ BYK-1165 ○	<b>Low shear rate:</b> BYK-1160*1 ● BYK-1163*1 ● BYK-1164*1 ● BYK-1165 ● BYK-1166*1 ●	<b>Low shear rate:</b> BYK-1160*1 ● BYK-1163*1 ●
<b>Total shear rate:</b> VISCOBYK-4041 ● VISCOBYK-5120*2 ● VISCOBYK-5125*2 ● VISCOBYK-4015 ○	<b>Total shear rate:</b> VISCOBYK-4015 ● VISCOBYK-4041 ● VISCOBYK-5120*2 ● VISCOBYK-5125*2 ●	<b>Total shear rate:</b> VISCOBYK-4041 ● VISCOBYK-5120*2 ● VISCOBYK-5125*2 ● VISCOBYK-4015 ○	<b>Total shear rate:</b> VISCOBYK-5120*2 ● VISCOBYK-5125*2 ●	<b>Total shear rate:</b> VISCOBYK-4015 ●

● First recommendation ○ Second recommendation

\*1 The effectiveness is dependent on the PVC type used. Especially recommended for pseudoplastic PVC types.

\*2 From bio-based raw materials

## Wetting and dispersing additives

Inorganic pigments	Organic pigments	Carbon blacks	Azodicarbonamide	Low emission	Low fogging	Dispersing medium
BYK-1165 ● DISPERBYK-102 ● DISPERBYK-2157*4 ● DISPERPLAST-1142 ● DISPERPLAST-1148 ● DISPERPLAST-1150 ● DISPERPLAST-I*3 ● DISPERPLAST-P*3 ● BYK-9076 ○	DISPERBYK-2157*4 ● DISPERPLAST-I*3 ● DISPERPLAST-P*3 ● BYK-9076 ○	BYK-9076 ● BYK-9077 ● DISPERBYK-2157*4 ● DISPERPLAST-P*3 ●	BYK-9076 ● DISPERBYK-2157*4 ● DISPERPLAST-1148 ● DISPERPLAST-1150 ● DISPERPLAST-I*3 ○ DISPERPLAST-P*3 ○	BYK-1162*4 ● BYK-1165 ● BYK-9076 ● BYK-9077 ● DISPERBYK-102 ● DISPERBYK-2157*4 ● DISPERPLAST-1142 ● DISPERPLAST-1148 ● DISPERPLAST-1150 ● DISPERPLAST-I*3 ● DISPERPLAST-P*3 ●	BYK-9076 ● BYK-9077 ● DISPERBYK-2157*4 ● DISPERPLAST-1142 ● DISPERPLAST-1148 ● DISPERPLAST-1150 ● DISPERPLAST-I*3 ● DISPERPLAST-P*3 ●	BYK-1162*4 ●

● First recommendation ○ Second recommendation

\*3 Contains diisodecyl phthalate (DIDP)

\*4 From bio-based raw materials



## Rheology additives

Transparent	Foamed	Filled	Low emission	Low fogging	Reduced flooding/floating of pigments
RHEOBYK-410 ●	GARAMITE-1958 ●	GARAMITE-1958 ●	GARAMITE-1958 ●	GARAMITE-1958 ●	GARAMITE-1958 ●
RHEOBYK-7410 ET ●	GARAMITE-7303 ●	GARAMITE-7303 ●	GARAMITE-7303 ●	GARAMITE-7303 ●	GARAMITE-7303 ●
RHEOBYK-D 410 ●	RHEOBYK-410 ●	RHEOBYK-410 ●	RHEOBYK-410 ●	RHEOBYK-410 ●	RHEOBYK-410 ●
RHEOBYK-7590*5 ○	RHEOBYK-7410 ET ●	RHEOBYK-7410 ET ●	RHEOBYK-7410 ET ●	RHEOBYK-7410 ET ●	RHEOBYK-7410 ET ●
	RHEOBYK-7590*5 ●	RHEOBYK-7590*5 ●	RHEOBYK-7590*5 ●	RHEOBYK-7590*5 ●	RHEOBYK-7590*5 ●
	RHEOBYK-D 410 ●	RHEOBYK-D 410 ●	RHEOBYK-D 410 ●	RHEOBYK-D 410 ●	RHEOBYK-D 410 ●

● First recommendation ○ Second recommendation

\*5 From bio-based raw materials

## Air release additives and defoamers

Transparent	Foamed	Filled	Low emission	Low fogging
BYK-1166*6 ●	BYK-1166*6 ●	BYK-3105*7 ●	BYK-1160*6 ●	BYK-1160*6 ●
BYK-3140 ●	BYK-3105*7 ●	BYK-3140 ●	BYK-1163*6 ●	BYK-1163*6 ●
BYK-3155 ●	BYK-3140 ●	BYK-3155 ●	BYK-1164*6 ●	BYK-3105*7 ●
BYK-A 530*7 ●	BYK-3155 ●	BYK-A 530*7 ●	BYK-1166*6 ●	BYK-3140 ●
BYK-1160*6 ○	BYK-A 530*7 ●	BYK-1160*6 ○	BYK-3105*7 ●	BYK-A 530*7 ●
BYK-1163*6 ○	BYK-1160*6 ○	BYK-1163*6 ○	BYK-3140 ●	
BYK-1164*6 ○	BYK-1163*6 ○	BYK-1164*6 ○	BYK-3155 ●	
BYK-3105*7 ○	BYK-1164*6 ○	BYK-1166*6 ○	BYK-A 530*7 ○	

● First recommendation ○ Second recommendation

\*6 The effectiveness is dependent on the PVC type used. Especially recommended for pseudoplastic PVC types.

\*7 Silicone-containing

## Foam stabilizers for mechanical foams

Hydrophilic foams	Hydrophobic foams	Reduction of density	Low emission	Low fogging
BYK-8070 ●	BYK-8020*8 ●	BYK-8020*8 ●	BYK-8020*8 ●	BYK-8020*8 ●
		BYK-8070 ●	BYK-8070 ●	BYK-8070 ●

● First recommendation ○ Second recommendation

\*8 Silicone-containing



## Moisture absorbers

Filled	Low emission	Low fogging
BYK-2616 ●	BYK-2616 ●	BYK-2616 ●

● First recommendation   ○ Second recommendation

## Matting agents

Transparent	Filled
CERAFLOUR 993* <sup>9</sup> ●	CERAFLOUR 993* <sup>9</sup> ●

● First recommendation   ○ Second recommendation  
\*<sup>9</sup> From bio-based raw materials

## Processing additives to improve release properties

Gelling drum	Release paper	Conveyor belts	Molds	Low emission	Low fogging
BYK-P 4100 ●	BYK-P 4100 ●	BYK-P 4100 ●	BYK-P 4100 ●	BYK-P 4100 ●	BYK-P 4100 ●

● First recommendation   ○ Second recommendation

## Additives to increase electrical conductivity

Filled	Surface resistivity	Volume resistivity
BYK-5128 ●	BYK-5128 ●	BYK-5128 ●

● First recommendation   ○ Second recommendation



### Additives to improve substrate wetting

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Release paper

Textile

Other substrates

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BYK-3760\*<sup>10</sup> ●

BYK-3760\*<sup>10</sup> ●

BYK-3760\*<sup>10</sup> ●

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● First recommendation    ○ Second recommendation

\*<sup>10</sup> Silicone-containing

### Additives to increase the surface energy after gelling

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Transparent

Foamed

Filled

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BYK-3560 ●

BYK-3560 ●

BYK-3560 ●

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● First recommendation    ○ Second recommendation



## Additives for PVC compounds

### Processing additives

Internal lubricant	External lubricant	Low emission	Low fogging
BYK-P 4100 ●	BYK-P 4100 ●	BYK-P 4100 ●	BYK-P 4100 ●

● First recommendation   ○ Second recommendation

### Additives to increase electrical conductivity

Filled	Surface resistivity	Volume resistivity
BYK-5128 ●	BYK-5128 ●	BYK-5128 ●

● First recommendation   ○ Second recommendation

### Wetting and dispersing additives

Low filler content	High filler content	Faster plastification	Lower melt viscosity	Higher elongation at break	Low emission	Low fogging
BYK-P 4100 ● DISPERPLAST-1180 ○	DISPERPLAST-1180 ● BYK-P 4100 ○	DISPERPLAST-1180 ●	DISPERPLAST-1180 ●	DISPERPLAST-1180 ●	BYK-P 4100 ● DISPERPLAST-1180 ●	BYK-P 4100 ● DISPERPLAST-1180 ●

● First recommendation   ○ Second recommendation

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This issue replaces all previous versions.

