

Evaporation Data

Evaporation times of thinners and retarders

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This TechINFO will be a most helpful tool in choosing the right thinner/retarder if a slower or faster drying auxiliary is desired. Especially the naming of pad printing thinners and retarders often causes confusion, because the number that is part of the name ("TPV 2") does not indicate any drying values but simply the chronology of the product's introduction. In order to provide some additional information on the drying characteristics, we have created a symbol to illustrate the ranking of a product within its group of screen/pad printing thinners or retarders.

Evaporation data (compared to ether = 1)

The drying speed of solvents is indicated by the evaporation data: It says how many times longer than ether a solvent takes before it is evaporated. Example: GLV has the evaporation data 190, which means it takes 190 times longer to evaporate than ether.

The evaporation data is based on information supplied by the manufacturer, with proportional values for mixtures. Possible interactions were not taken into consideration. The solvent evaporation and thus the physical drying is also influenced by the solvent retention capacity of the binder in combination with the solvents used.

Attention






- The evaporation value is one factor to be considered for the drying behavior; other decisive factors are the solubility, and the substrate
- Please follow the instructions in the Technical Data Sheets, as the thinners and retarders are not universally applicable






In the event of any queries please don't hesitate to contact us!

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| Thinner | Evaporation | Screen Printing | Pad Printing |
|---|-------------|----------------------------|--|
|  | bis 20 | 7037 | GLTPV TPV 2 |
|  | 25 - 50 | PLV PSV PUV UKV 1 | PPTPV, TPGLV TPV TPV 6 TPV 7 TPV 9 |
|  | 50 - 100 | UKV 2 | TPV 8 TPV 10 TPLV |
|  | 150 - 200 | GLV MGLV PV | - |
|  | 200 - 300 | QNV | TPV 3 |

| Retarder | Evaporation | |
|---|-------------|------------------------|
|  | 250 - 300 | SV 5 |
|  | 300 - 500 | SV 1 SV 10 SV 11 |
|  | 500 - 1000 | - |
|  | 1000 - 2000 | SV 3 SV 12 |
|  | 2500 - 3000 | SV 9 |