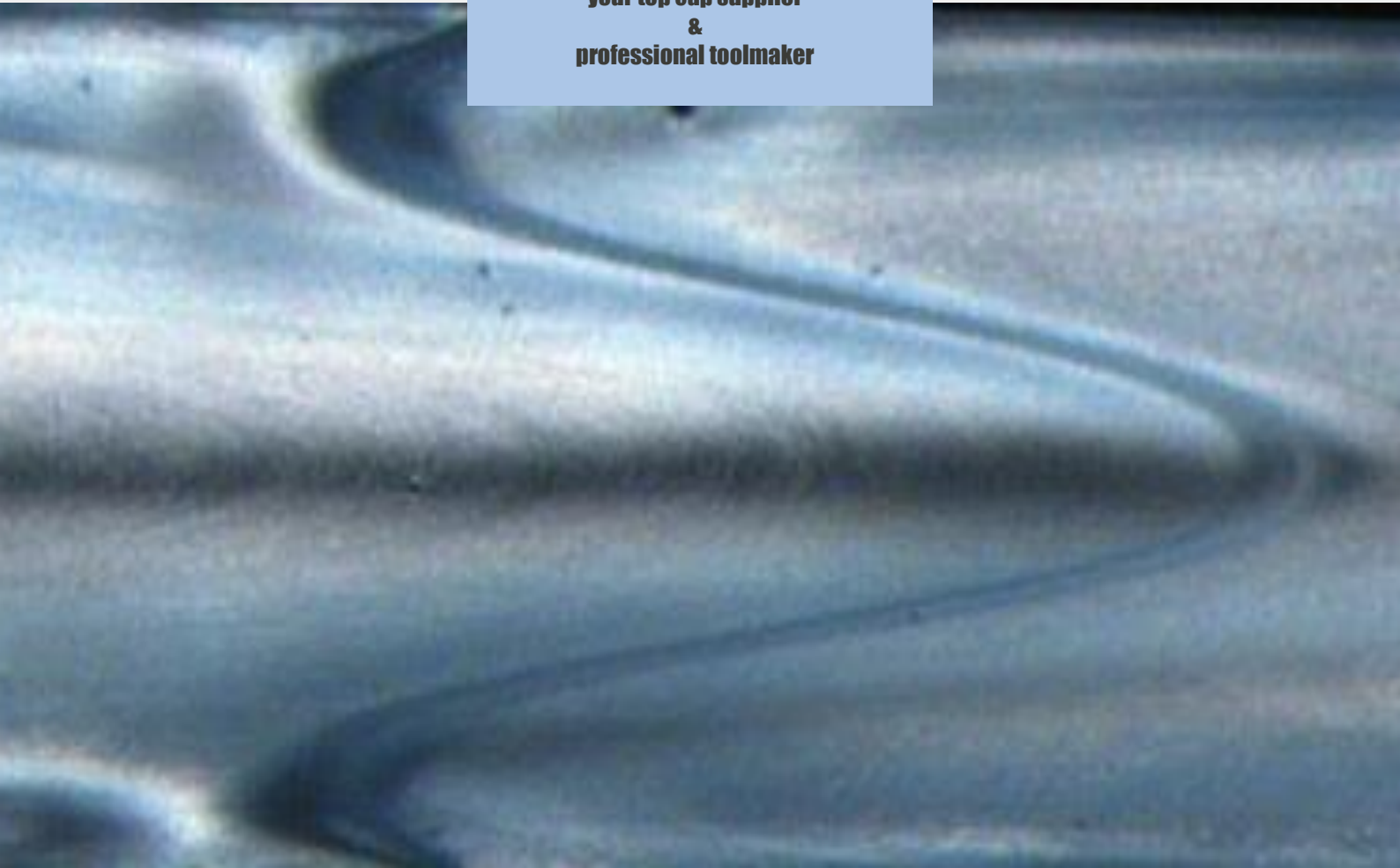




RUBA Thermoplast AG

**your top cap supplier
&
professional toolmaker**



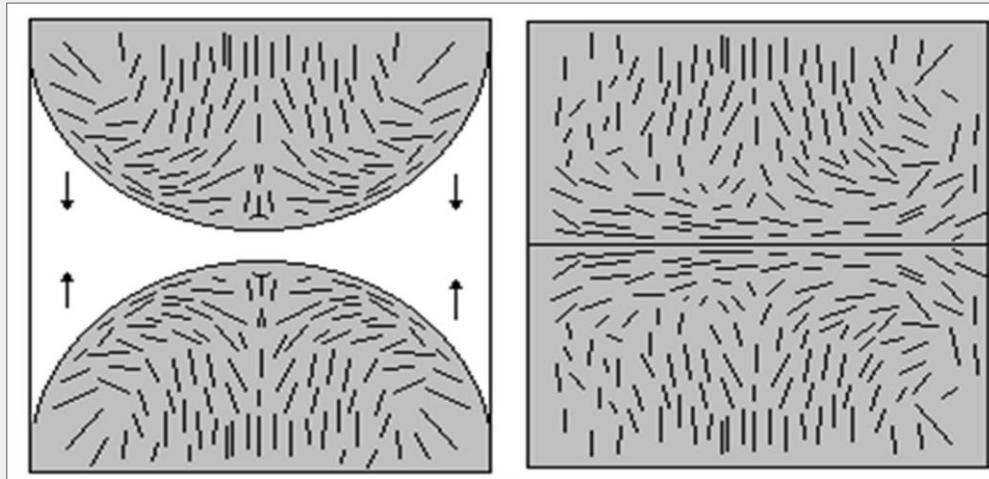
What are flow lines?



Flow marks/Orientations of pearl colored cosmetic caps

Flow marks on cosmetic closures reduce the value of the product. The injection point of the RUBA caps is inside and in the middle, but even despite this system, the traces of flow and orientation cannot be completely excluded.

Formation of flow lines



By plastics, which have a low transparency, is the gloss and the effect of the pigments intensely reduced. In general, not all opaque (non transparent and not clear) polymers with an intensive own colour are really suitable for the processing of pearl masterbatches.

We recommend you to order for all pearl colours a colour sampling incl. RUBA form QMR 07.13 Color sampling report in advance. However, this sampling does not guarantee that the results of later productions comply with the previous samples to 100%.

The flow lines may occur sporadically or regularly, this can not be avoided. Not only masterbatch, but also the tool itself can affect the appearance of the caps.

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Suitable resins:

- crystal-clear, highly transparent and translucent resins
- PCTG, SAN, ABS und PP

Our experience has shown, that the same masterbatch might look quite different on different caps.

The higher the dosage of the masterbatch, the more flow lines may occur.

The grain size of the pigments can also be different.

The smaller the size of the particles, the more flow lines are present on the caps. Often better results are achieved by using various additives and the highest possible MFI of the resin.

In order to achieve the optimal desired quality of the closures with pearl effects, we offer you our additional service [QL 02 finishing processing & Pearl colors](#).

Benefit from our long years experience.

Contact us directly or make an appointment with us!