

## DYLYN®/DLC for plastic injection

### ■ Mobile phones

---

#### Mould inserts for sight glasses of mobile phones

**Before: Uncoated**

- Build-up of residue
- When removing residues, parts get scratched
- Corrosion
- Carbide erodin

**Now: DYLYN® 180**

All 4 demands solved with ONE coating!

- No change of transparency of the product
- No post-polish necessary, because our coating does not change the roughness



#### Ejector pins for production of mobile phone front covers requiring secondary operation to apply EMI shielding on back side of cover

**Before: WCC coating with grease**

- Due to lubricant residue around the impression of the ejector pins: 60 % scrap
- Maintenance mainly because of resinated grease:
  - Cleaning & new grease
  - After every 35,000 shots
- Frequent production stops due to galling of the ejector pins

**Now: DYLYN®/DLC without grease:**

- Yield ratio: 99 %
- Maintenance:
  - Reduced to wipe-off & control
  - Only after every 150,000 shots
- Last documented wear control after 1.35 million shots without visible wear
- Production stops due to galling reduced to < 0.3 %

