

Dylyn[®]/DLC for plastic injection

■ Mobile phones

Mold inserts

for sight glasses of mobile phones

Before:

Uncoated – no grease

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

After:

Dylyn[®] 180

- All 4 demands solved with ONE coating!
- No change of transparency of the product
- No post-polish necessary, cause our coating doesn't 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 35000 shots
- Frequent production stops due to galling of the ejector pins

After:

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%

