

Dylyn®/DLC for plastic injection

■ Medical / Pharmaceutical

Cores for one-way syringes

Before:

Hard chrome plating

- Build up of residues on the parking lip of the corecaused scratches inside the syringes during the release
- Need to remove residues every 3-4 hours
- Residues removed by abrasives:
 - Excessive wear on parking lip
 - Running parameters had to be adjusted due to change in surface texture of core
- Problems with corrosion & scratches

After:

DLC/Dylyn® 180

- After more than 2 years still no residue build up!!
- 100% corrosion protection
- Excellent scratch resistance



Pilot pins, leader pins & ejector bushings for one-way syringes

Before:

Uncoated pilot pins

- Wear and galling in pin calibration area & bushing
- Galling caused pins to break after 3-4 weeks
- Bushings replaced after 5-6 months

Uncoated leader pins

- Lubricants needed, but still did a poor job protecting sliding areas against wear & galling
- Upon mold opening, syringes drop on lubricated columns and are contaminated

After:

Dylyn®/DLC

- Lifetime and reliability of pins better than 5 months
- After 1.5 years:
 - No need to replace bushings
 - Dry running with no signs of wear or galling