

| Kurzname | Kunststoffname | Handelsnamen | Massetemp. °C | Probleme | Eignung der PVD-Schichten | | | | | |
|--------------------------------------|-----------------------------|-----------------------------------------------------------|---------------|----------|---------------------------|------|-----|-------------------|-----------------------------------|-----|
| 1. Standard - Kunststoffe | | | | | | | | | | |
| 1.1 Polyolefine | | | | | | | | | | |
| PE | Polyethylen | Bavlon, Hostalen, Lupolen, Vestolen, Marlex, etc. | 170 - 300 | B / K * | TiN | TiCN | CrN | Cr ₂ N | TT [®] -WCC [®] | DLC |
| PP | Polypropylen | Hostalen PP, Novolen, Vestolen PP, Eltex P, etc. | 170 - 300 | B / E * | + | | +++ | +++ | + | + |
| PB | Polybuten | Shefl, Polybutylen, etc. | 170 - 300 | | + | | ++ | ++ | + | + |
| 1.2 Chlorhaltige Polymerisate | | | | | | | | | | |
| PE | Polyvinylchlorid | Hostalit, Vestolit, Vinidur, Corvic, etc. | 170 - 210 | B / K * | | | ++ | +++ | | |
| 1.3 Celluloseester | | | | | | | | | | |
| CA | Cellulose / Essigsäure | Cellodor S, Cellonex, Tenite, Acetate, etc. | 180 - 230 | | +++ | | ++ | +++ | | |
| CP | Cellulose / Propionsäure | Cellodor CP, Tenite, Propionate, etc. | 180 - 230 | | +++ | | | | | |
| CAB | Cellulose / Essigsäure | Cellodor B, Tenite, Butyrate, etc. | 180 - 230 | | +++ | | | | | |
| 1.4 Styrol - Polymerisate | | | | | | | | | | |
| PS | Polystyrol | Polystyrol, Styron, Lastirol, Vestyron, etc. | 160 - 250 | B / E * | +++ | | ++ | ++ | | |
| SAN | Styrol-Acrylnitril | Luran, Sinkral, Srilasan, Tyril, Vestyron, etc. | 180 - 260 | | +++ | | ++ | ++ | | |
| SB | Styrol-Butadien | Styroplus, Lacarene, Restiolo, Vestyron, etc. | 180 - 250 | | +++ | | ++ | ++ | | |
| ABS | Acrylnitril-Butadien-Styrol | Cycolac, Lustran, Novodur, Terluran, Terlux, etc. | 180 - 260 | V / B * | ++ | ++ | | ++ | | |
| ASA | Acryl-Styrol-Acrylnitril | Luran S, etc. | 210 - 280 | | +++ | | ++ | ++ | | |
| 2 Technische Kunststoffe | | | | | | | | | | |
| 2.1 Acetalharze | | | | | | | | | | |
| POM | Polyoximethylen | Deirin, Hostaform, Ultraform, etc. | 180 - 230 | B / K * | ++ | | ++ | +++ | | |
| 2.2 Polyacrylate | | | | | | | | | | |
| PMMA | Polymethylmethacrylat | Plexiglas, Degalan, Luctite, Lacrilix, etc. | 180 - 250 | E / B * | +++ | | | | | |
| 2.3 Polyacrylate | | | | | | | | | | |
| PA | Polyamid | PA 6; Akulon, Durethan B, Grilon, Maranyl, Ultramid, etc. | 210 - 300 | E / B * | +++ | ++ | ++ | ++ | ++ | ++ |
| | | PA 66, Durethan A, Grilon T, Technyl A, Ultramid A, etc. | | | | | | | | |
| | | PA 12 Grilamid, Rilsan A, Vestamid, etc. | | B / V * | ++ | | + | ++ | ++ | ++ |
| 2.4 Lineare Polyester | | | | | | | | | | |
| PC | Polycarbonat | Lexan, Makrolon, Calibre, Orgalon, Sinvet, Xantar etc. | 240 - 320 | E * | +++ | | ++ | +++ | | |
| PET | Polyethylentarphthalat | Arnite A, Hostadur E, Petlon, Rynite, Ultradur A, etc. | 230 - 270 | | +++ | | ++ | +++ | | |
| PBT | Polyethylentarphthalat | Arnite A, Hostadur B, Ultradur, Valux, Vestodur, etc. | 230 - 290 | | +++ | | ++ | +++ | | |
| 2.5 Blends | | | | | | | | | | |
| PC / ABS | | Bayblend T, Terblend, etc. | 240 - 280 | E / B * | +++ | | | +++ | | |
| PC / PBT | | Makroblend PR, Ultrablend, Xenov, etc. | 265 - 280 | | +++ | | | +++ | | |

Alle Angaben und Empfehlungen ohne Gewähr

* B = Belag E = Entformung K = Korrosion S = Verschmutzung V = Verschleiß

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|----------------------------------------|--------------------------------|------------------------------------------------------|---------------|----------|---------------------------|-----|------|-----|-------------------|----------|-----|
| 3. Hochleistungs - Thermoplaste | | | | | | | | | | | |
| 3.1 Polyimide | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| PAI | Polyamidimid | Torlon, etc. | 340 - 360 | | + | | | ++ | +++ | +++ | +++ |
| PEI | Polyetherimid | Ulfem, etc. | 340 - 425 | | + | | | +++ | +++ | | |
| PMI | Polybismaleinimid | Kinel, Sigrafil, etc. | 270 - 310 | | + | | | ++ | ++ | | |
| PI | Polyimide | Gemon, Kapton, etc. | | | +++ | | | | | | |
| 3.2 Styrol - Polymerisate | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| PEK/PEEK | Polyaryletherkone | Ultrapek, Victrex, etc. | 350 - 400 | | + | ++ | | +++ | +++ | | |
| PPS | Polyphenylsulfid | Fortron, Primef, Ryton, Supec, etc. | 300 - 385 | E * | + | ++ | | +++ | +++ | | |
| PPE (PPO) | Polyphenylenether | Noryl, Ultranyl, Vestoblend, Luranyl, Vestoran, etc. | 280 - 340 | E * | + | ++ | | +++ | +++ | | |
| PSU | Polysulfon | Udel, Ultrason S, etc. | 310 - 390 | | + | ++ | | +++ | +++ | | |
| PES | Polyethersulfon | Ultrason E, etc. | 340 - 390 | | + | ++ | | +++ | +++ | | |
| 3.3 Fluorhaltige Polymerisate | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| PVDF | Polyvinylidenfluorid | DvFlor 2000, Forafion, Solef, Vidar, etc. | 220 - 300 | | | | | +++ | +++ | | |
| PTFE | Polytetrafluorethylen | Algoflon, etc. | | | | | | ++ | ++ | | |
| 4. Elastomere | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| PUR | Urethan - Kautschuk | Aelacell, Aclathan S, Contipren, Conti-PUR, etc. | 280 - 320 | E * | | | | ++ | ++ | | |
| NBR | Nitril - Kautschuk | | 220 - 260 | S * | + | | | ++ | ++ | | |
| EPDM | Ethylen-Propylen-Terpolymer | | 180 - 280 | S / E * | + | | | ++ | ++ | | |
| FPM | Fluor - Kautschuk | | | E / B * | | | | ++ | ++ | | |
| TPU | thpl.Polyurethan-Elastomer | Desmopan, Elastolan, Isoplast, etc. | 180 - 250 | V / E * | + | | | ++ | ++ | | |
| SEBS | thpl.Styrol-Butadien-Elastomer | Heraflex, Kebaflex, Vitaprene, etc. | 180 - 250 | V / E * | + | | | ++ | ++ | | |
| Si | Synthetischer - Kautschuk | Baysilon, Contiduct, etc. | | | + | | | ++ | ++ | | |
| 5. Duropaste | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| 5.1 Phenoplaste | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| PF | Phenolharze | Bakelite PF, Resinol, Supraplast, Vyncolite, etc. | | B / V * | + | + | | ++ | +++ | | |
| 5.2 Aminoplaste | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| MF | Melaminharze | Bakelite MF, Melbrite, Meisir, Supraplast, etc. | | E / B * | | | | ++ | ++ | | |
| MP | Melamin-Phenolharze | Bakelite MP, Melopas, Supraplast, etc. | | V / B * | | | | ++ | +++ | | |
| UF | Harnstoffharze | Bakelite UF, Gabrite, Polioplas, Skanopal, etc. | | E / B * | ++ | | | ++ | +++ | | |
| 5.3 Aminoplaste | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| UP | ungesättigte Polyesterharze | Bakelite UP, Ampal, Polydur, Resipol, etc. | | | | | | ++ | ++ | | |
| 5.4 Epoxidharze | | | | | | TiN | TiCN | CrN | Cr ₂ N | TT®-WCC® | DLC |
| EP | Epoxidharze | Araldit, Bakelite, Supraplast, Meloplas, etc. | | E / B * | + | + | | ++ | ++ | | |