



## DPC-Resins for tooling and pattern-making

The DPC company has an experience of over 20 years in technology and production of synthetic duroplastic resins, especially epoxies, for industrial use. So the product range offers also a complete choice of resin systems for the tooling and patternmaking business. Tailor made proposals can be provided for any requirements, based on outstanding materials, practical, safe and reliable in handling and performance.

Additionally to the proven standards some new special types are also presented, which may cover technical needs in particular application fields.

### 1) EPOXY-SYSTEMS

#### DPC-SURFACE RESINS

<b>OW</b>	white, good polishable and machinable
<b>OAG</b>	grey, filled with silicon carbide, very high abrasion resistance
<b>OS</b>	black, filled with steel powder, good slip characteristics, good machinable
<b>OTG</b>	grey, aluminium filled, good thermal resistance
<b>VPM 1063</b>	grey, aluminium filled, very high thermal resistance (TG 160 °C)

#### DPC-LAMINATING AND MULTI-PURPOSE RESINS

These DPC-Resins, unfilled or only containing a small amount of fillers, are primarily used for fiberglass laminates or – thanks to their low viscosity and excellent wetting properties – as binder, for example in low-cost backing sand (resin-bonded ramming sand).

<b>MZ3</b>	clear, low viscosity, universal laminating and back filling resin
<b>MZ2</b>	clear, medium viscosity, heavy duty universal resin
<b>LW</b>	white, slightly filled and thixotropic, good physical properties
<b>LT1</b>	clear, very low viscosity and very good wettability, universal use, also for back fillings
<b>LT2</b>	clear, medium viscosity, good mechanical and thermal properties
<b>LT3</b>	clear, low viscosity, excellent thermic, balanced mechanical properties
<b>LT4</b>	clear, low viscosity, excellent thermic and mechanical properties
<b>LTT</b>	clear, medium viscosity, high stiffness and thermal resistance
<b>VPM 1036</b>	clear, long pot life, good thermal resistance, glossy surface
<b>VPM 1062</b>	clear, very high thermal resistance (glasstransition temperature TG 160 °C)
<b>VPM 1075</b>	clear, low viscosity, good thermic and excellent mechanical properties, brilliant
<b>LP 10</b>	grey, glasfiber filled laminating paste, for layers up to 15 mm

#### DPC-CASTING RESINS

DPC-Casting resins are easily pouring resins with filler; after complete curing they are very hard and wear-resistant, so that they allow the production of tools with one pour and without gelcoating.

DPC-Casting resins feature minimal shrinkage – thanks to prime quality resins and fillers.

<b>GG</b>	grey, silicon carbide filled, very high abrasion resistance, difficult to work
<b>GS</b>	black, steel powder filled, abrasion resistant, good slip characteristics and machinability
<b>GB</b>	blue, similar type to GS
<b>GW</b>	white, good mechanical and thermal resistance, universal type
<b>GHG</b>	blue, economical casting and back filling type, good workable
<b>GTG</b>	grey, aluminium filled, high mechanical and thermal properties

### 2) URESID-POLYURETHANE RESINS

Even though they do not attain the high strength and the low shrinkage characteristics of epoxy resins, polyurethane resins are completing the epoxy resins program in an ideal way. Among polyurethane resins are very fast curing systems and types which are very good machinable.

<b>25 R</b>	red, fast-curing casting resin, best mechanical properties, tough-hard, good machinability
<b>26 G</b>	green, universal very fast-curing casting resin
<b>28</b>	white, universal very fast-curing casting resin, tough, very good machinability
<b>28 G</b>	grey, coloured version of URESID 28

### 3) DPC-ADHESIVE RESIN

<b>KL</b>	without filler, thixotropic, 2-component epoxy resin adhesive
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Other types and resins for specific applications can be supplied upon request.