Faster, tighter and cleaner

Laser transmission welding for plastics applications

Key benefits
- Flexible welding capability for challenging parts
- Top processing quality in welding strength and airtightness
- Stable joint connections with reduced mechanical and thermal load
- No chemicals necessary
- Broader color space besides black

Key pigments

Laser transparent pigments
- Lumogen® Black K 0087
- Lumogen® Black K 0088

Laser absorption pigment
- Lumogen® IR 765

With our broad portfolio of organic and inorganic pigments, every cool color is possible
Laser transmission welding for plastics applications

Lumogen® Black K 0087*, Lumogen® Black K 0088**, Lumogen® IR 765

* resp. ** former Lumogen® Black FK 4280 resp. FK 4281

Offer more flexibility and productivity in high-end welding fields

Laser Transmission Welding is the preferred method of joining plastic parts whenever methods like ultrasonics or vibration create scratches or dust. Additionally, it can be used when thermal or chemical methods can influence electronic parts or flawless surfaces.

Laser transmission welding black on black

Laser transmission welding transparent and with color

Lumogen® Black K 0087 and K 0088; PET film 500 µm; Pigment loading 7.5 %

Lumogen® IR 765; Polycarbonate 1mm; Pigment loading: 0.01%

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