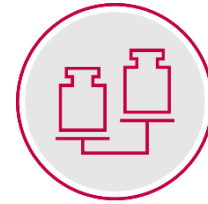




LUVOCOM® LW Thermoplastic lightweight construction compounds



WEIGHT

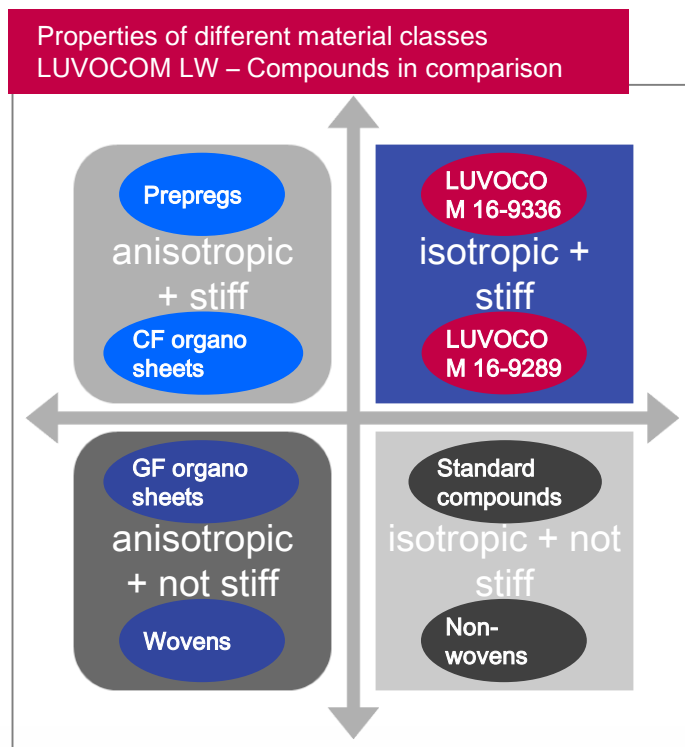


STRUCTURAL

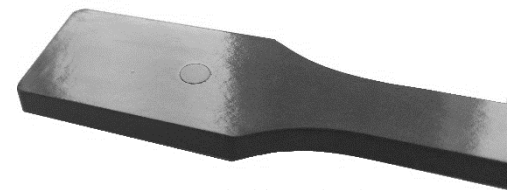
LUVOCOM LW - Innovative construction materials with carbon fibers and glass fibers which enable an additional saving in weight and possess exceptional mechanical properties. A reduction in weight of up to 62% is possible compared with other reinforced thermoplastics. A value of 52 GPa is attained for the tensile modulus and a figure of 530 MPa is possible for flexural strength. With these properties, the materials also offer advantages over other systems such as composites (CFRP and GFRP) and organo sheets.

Moreover, materials of this class are also conceived for used in visible areas. By designing the components to suit the material and using the design freedom open to plastics, it is also possible to achieve a significant reduction in the system costs of up to 70%.

Our focus is directed towards tailor-made solutions. A suitable material is developed to match the requirements of the component. Further functionalities such as tribological properties or electromagnetic shielding can also be integrated.



SURFACE

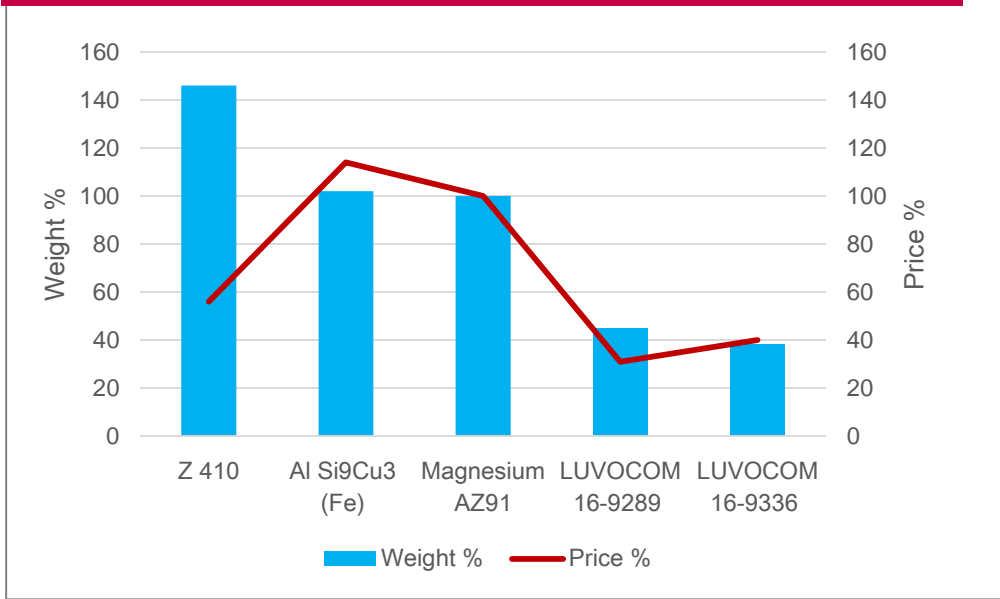


LUVOCOM LW – highly rigid and strong.
Attractive surfaces for applications in visible
areas are possible.



System costs of metal alloys and LUVOCOM compounds at the same strength level. Application: structural parts in automotive instrument panels

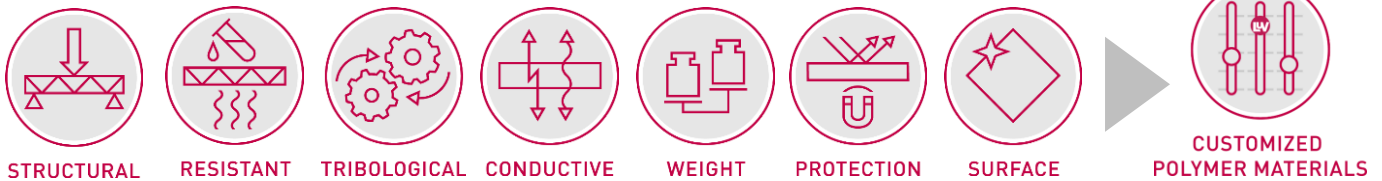
Solutions - Individually Engineered



Examples of products for tailor-made lightweight construction compounds

Material designation	Polymer and main modification	Tensile modulus (GPa)	Tensile strength (MPa)	Surface	Other
LUVOCOM 16-9336	PARA/CF	42	345	++	
LUVOCOM 16-9289	PARA/CF/GF	40	280	++	
LUVOCOM 20-9293	PPA/CF/PTFE	39	360	o	Tribologically optimized

Our Material Competences



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