KAROTEC

New item in the KARODUR product range:

KAROTEC: Thermoplastic Lightweight Panels

The **KARODUR-Multi Layer Board**
It is a composite board, produced in thermoplastic procedure, and pressed without the use of chlorofluorcarbons.

The KARODUR-Group are specialist in the manufacture of thermoplastic composite materials, have developed a new thermoplastic lightweight PP based panel. They are available in various versions:
KAROTEC VPLight, VP Medium and **VP Strong**.

KAROTEC-Lightweight boards can be used as a substitute for a various range of materials (steel, aluminum) and find their use in the widest range of applications and industries. A very interesting property of the KAROTEC-boards are their weight, in particular for those sectors in which a weight reduction to higher energy efficiency and thus to achieve significant cost savings.

Possibilities of use in a variety of fields possible

– Automotive Industry
– Aviation Industry
– Boat Construction
– Building Technology
– Mechanical Engineering
– Noise Protection

KAROTEC: Thermoplastic Lightweight panels

What speaks for the use of Karodur multi-layer boards:

– **leight weight construction**	through the use of proven composite materials
– **energy efficiency**	protection against solar radiation and and thermal bridgeing
– **noise reduction**	on the basis of thermoplastic molded composite honeycomb structur
– **longevity**	PP has a long servic life
– **functionality**	through their properties they can be used in almost all areas of construction
– **sustainability**	the multi-layer boards can be shredded and then fed back into the production
– **food safe**	in the manufacturing no adhesives are used, it is suitable for food products
– **acid resistance**	according to risistance list for polypropylene

KAROTEC VPL (light), VPM (medium) und **VPS (strong)** are three different boards on a PP base that stand out due to their mechanical properties - depending on the different area of application. The low specific weight, the excellent hardness and rigidity even at low temperatures, humidity and chemical resistance as well as durability and easy recyclable nature make Karotec VPL, VPM and VPS to a successful alternative material.

Kontakt

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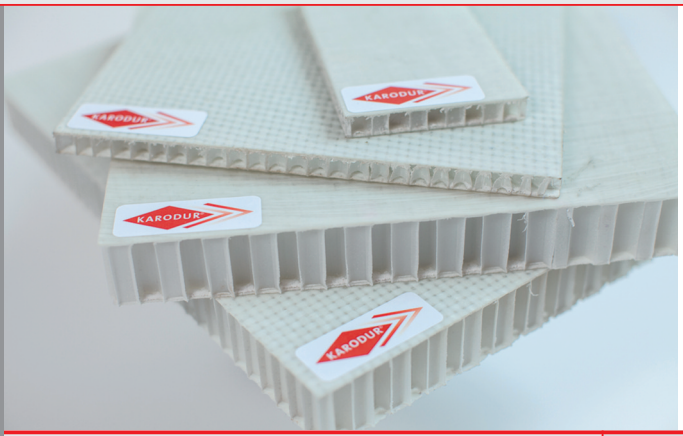

available:

(1.000 x 2.000 mm)

(1.250 x 2.500 mm)

KAROTEC	VPL light	VPM medium	VPS strong
density [g/cm³]:	0,27	0,31	0,42
weight [2,734 kg/m²]	2,734	3,112	4,927
distance (bending) [mm]	7,4*	6,3*	9,6*
bending stress [MPa]	21,2*	39,8*	49,7*
force [N]	1.087,4*	1.764,3*	3.005,1*

thermal conductivity = W/(m·K) board t = 10 mm, 0,0781
board t = 28 mm, 0,1028

* 3 point bending test according to DIN EN ISO 178:2013-09