

Thermo-H40 (Press pad)

Product description

Thermo-H40 is a special press pad for pressing materials, which require a very high pressing temperature and a long pressing time. Thermo-H40 works very well under these extreme conditions, because of the special material composition. Thermo-H40 consists of aramid fibers with certain inorganic filling materials. All is kept together by a special high temperature resistant binder.

Thermo-H40 is of course free of silicone and other volatiles. It has a homogeneous and flat surface. Therefore it does not release any particles and it does not leave any residues on press plates.



Application

Pressing of prepregs with resin systems, which require high curing temperatures. For example prepregs with polyimide resin, cyanate ester resin, BT resin but also PTFE skives. Standard press pads cannot be used at such high temperatures, as they will decompose after few minutes. Thermo-H40 however withstands temperatures up to 300 °C for several hours. Even under such extreme conditions Thermo-H40 guarantees good thickness leveling and a consistent temperature distribution.

Process parameter (hydraulic press)

Temperature: up to 300 °C
Pressure: 100 – 400 N/cm² (10 – 40 bar)

Material properties & mech. processing

Density:	0.86 ± 0.05 g/cm ³
Surface weight:	900 ± 30 g/m ²
Tensile strength MD:	> 4.0 MPa
Tensile strength CD:	> 3.0 MPa
Ignition loss (1h@800 °C)	35 ± 2 %
Color:	grey
Cut to size:	guillotine shears
Punching:	possible without preheating
Mech. processing:	carbide tools recommended

Storage & handling

Temperature: 15 – 25 °C
Humidity: preferably 45 – 60 rh%
Storage: keep in original package until usage

Availability

Thickness: 0.89 ± 0.08 mm
Rolls: roll width 508 mm, 660 mm, 750 mm ...
Sheets: size and punching according customer specification

The typical values are based on data from production and from sample measurements in the lab. This data should be considered as general information. It is the responsibility of the user to ensure that the product complies with his requirements.

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