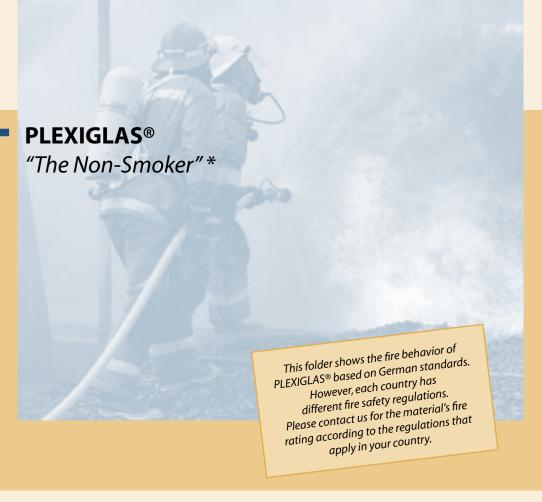
## degussa.

### creating essentials



Fire! Soon the air is filled with thick, acrid fumes. Only a few seconds later, it's impossible to see where you are. You can't see the fire-fighters, and they can't see you. You breathe in a dangerous mixture of different smoke gases. Shortly after, you are unable to escape. You are in grave danger.

You can influence this scenario by installing PLEXIGLAS®. Tests on the smoke density of materials prove that:

\*it burns almost without smoke.

Moreover, PLEXIGLAS® is toxicologically inoffensive in the event of fire.

These are invaluable safety benefits.



### **PLEXIGLAS®**

### "The Non-Smoker" \*



### Smoke can be fatal within just a few moments!

Fires often spread rapidly to other combustible materials. These frequently produce so much smoke that you can no longer see your hand in front of your face just a few



seconds later. Soon, exit signs are no longer visible.

Moreover, many materials also generate acutely toxic gases.



Both aspects are extremely dangerous and may be fatal within a matter of moments.
Various technical publications describe how some 80% of all fire victims die of smoke poisoning rather than the fire itself.

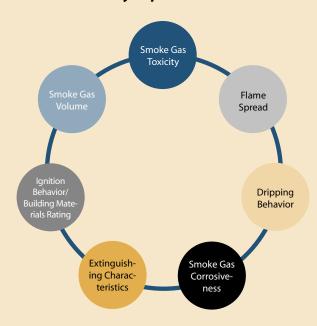
80% of deaths

due to smoke

poisoning

Fires cannot always be prevented, but they can be influenced by the use of suitable building materials.

### Fire Safety Aspects



Fire safety experts rate material properties according to various safety aspects. PLEXIGLAS® offers high fire safety potential.

PLEXIGLAS® burns almost without smoke, forms no acutely toxic gases to DIN 53436, and is quick and easy to extinguish.

According to German standards, PLEXIGLAS® is normally flammable, B2 to DIN 4102.

Moreover, PLEXIGLAS® is rated in European Class E, without burning droplets, according to DIN EN 13501.

\*PLEXIGLAS® burns almost without smoke.

# Test Methods Comparable to DIN 4102 to Assess the Smoke Density of Building Materials The photos show a test duration of approx. 90 seconds. Smoke formation of PVC, PS, SAN, PC, PETG, shown here by the example of PC (rated B1, flame-retardant, to Smoke formation of PLEXIGLAS® (rated B2. normally flammable,

DIN 4102)

to DIN 4102)

### Smoke Gas Toxicity

DIN 53436 rates the acute toxicity of smoke gases. The smoke gases produced by PLEXIGLAS® are inoffensive according to this standard.



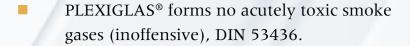
Translation

### **PLEXIGLAS®**

### "The Non-Smoker" \*



\* PLEXIGLAS® burns almost without smoke. (DIN 4102 and European Class E, DIN EN 13501)





PLEXIGLAS® burns without corrosive smoke gases, DIN VDE 0482-267.

- PLEXIGLAS® can be easily extinguished with water.
- PLEXIGLAS® is approved as a building material for interior and exterior applications.



- PLEXIGLAS® is employed in public constructions such as schools and kindergartens.
- PLEXIGLAS® has been approved for decades by the aviation industry for use in window glazing.

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