



FTT WOLBROM®

Fabryka Taśm Transporterowych Wolbrom S. A.



AB 169
Laboratorium
FTT WOLBROM S.A.



EN ISO 9001 | EN ISO 14001 | PN-N 18001 | PN-ISO/IEC 27001



PN-EN ISO/IEC 17025 Laboratorium



Vulcanized flame resistant rubber plates GPT-W

Use and working conditions

Vulcanized, flame resistant rubber plates GPT - W are designed for use mainly in underground mines of flammable and non-flammable minerals, at "a", "b" and "c" methane explosion hazard level headings and "A" and "B" coal dust explosion hazard level headings as:

- Rubber plates,
- Sealants,
- Lining of going barrels and rollers of conveyor belts,
- Lining of overflows and sides of conveyor belts,
- Mine facilities lining,
- Repair material for conveyor belts by cold gluing,
- Other uses with the need for flame resistance and anti-electrostatic design.

The plates may also be used on the ground in temperature ranges stated in **table 2**.

GPT-W plates are manufactured according to WT-4/12 technical requirements.

Depending on the range of electric surface resistance of rubber, the plates are divided into following classes:

- V1 with surface electric resistance max. 1×10^6 [Ω],
- V2 with surface electric resistance max. 3×10^8 [Ω],
- V3 with max. volume resistance 5×10^4 [Ω], and surface electric resistance max. 3×10^5 [Ω].



Flame resistant rubber plates have "B" sign safety certificates issued by GIG Certifying Body in Katowice which means they are fit for use in underground mines.

Table 1 shows the dimensions proposed by the manufacture; other dimensions available after agreement with the manufacturer.

For intermediate dimensions, tolerance from the closest value should be used.

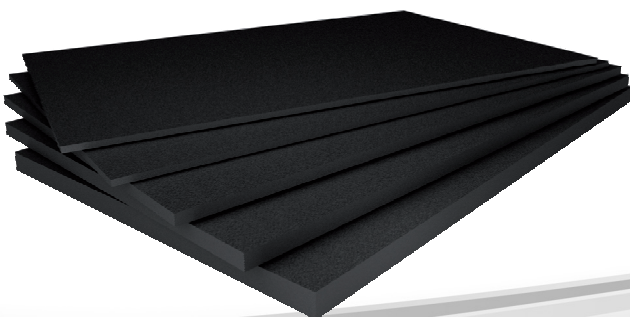


Table 1. Standard dimensions of GPT-W plates

| Plate thickness [mm] | Length | Width | Notes |
|----------------------|-----------------------------|---------------------------------------|-------|
| 0,5 ±0,2 | 10 ±0,1[m] | 1200 [mm] ±2,5 [%] | |
| 1 ±0,2 | | | |
| 2 ±0,3 | | | |
| 3 ±0,4 | | | |
| 4 ±0,5 | | | |
| 5 ±0,5 | | | |
| 6 ±0,6 | | | |
| 7 ±0,7 | | | |
| 8 ±0,8 | | | |
| 9 ±0,9 | | | |
| 10 ±1,0 | 10 ±0,1 [m] | 1200 [mm] ±2,5 [%] | |
| | 1000 ±15 [mm] | 1000 ±15 [mm] | |
| | 4,5 ±0,1 [m] | 200, 250, 400, 650, 800 [mm] ±2,0 [%] | |
| | 4,5 ±0,1[m] or 9,5 ±0,1[m] | 1000 or 1200 [mm] ±2,0 [%] | |
| | 9,5 ±0,1 [m] | 1400, 1600, 1800, 2000 [mm] ±2,0 [%] | |
| 12 +1,5/-1,0 | 10 ±0,1[m] | 1200 [mm] ±2,5 [%] | |
| | 1000 ±15 [mm] | 1000 ±15 [mm] | |
| | 4,5 ± 0,1 [m] | 200, 250, 400, 650, 800 [mm] ±2,0 [%] | |
| | 4,5 ±0,1[m] or 9,5 ±0,1 [m] | 1000 or 1200 [mm] ±2,0 [%] | |
| | 9,5 ±0,1 [m] | 1400, 1600, 1800, 2000 [mm] ±2,0 [%] | |
| 15 +1,5/-1,0 | 1000 ±15 [mm] | 1000 ±15 [mm] | |
| | 4,5 ±0,1 [m] | 200, 250, 400, 650, 800 [mm] ±2,0 [%] | |
| | 4,5 ±0,1[m] or 9,5 ±0,1 [m] | 1000 or 1200 [mm] ±2,0 [%] | |
| | 9,5 ±0,1 [m] | 1400, 1600, 1800, 2000 [mm] ±2,0 [%] | |
| 20 +2,0/-1,0 | 1000 ±15 [mm] | 1000 ±15 [mm] | |
| | 4,5 ±0,1 [m] | 200, 250, 400, 650, 800 [mm] ±2,0 [%] | |
| | 4,5 ±0,1[m] or 9,5 ±0,1 [m] | 1000 or 1200 [mm] ±2,0 [%] | |
| | 9,5 ±0,1 [m] | 1400, 1600, 1800, 2000 [mm] ±2,0 [%] | |
| 25 +2,5/-1,0 | 1000 ±15 [mm] | 1000 ±15 [mm] | |
| | 4,5 ±0,1 [m] | 200, 250, 400, 650, 800 [mm] ±2,0 [%] | |
| | 4,5 ±0,1[m] or 9,5 ±0,1 [m] | 1000 or 1200 [mm] ±2,0 [%] | |
| | 9,5 ±0,1 [m] | 1400, 1600, 1800, 2000 [mm] ±2,0 [%] | |
| 30 +3,0/-1,5 | 1000 ±15 [mm] | 1000 ±15 [mm] | |
| | 4,5 ±0,1 [m] | 200, 250, 400, 650, 800 [mm] ±2,0 [%] | |
| | 4,5 ±0,1[m] or 9,5 ±0,1 [m] | 1000 or 1200 [mm] ±2,0 [%] | |
| | 9,5 ±0,1 [m] | 1400, 1600, 1800, 2000 [mm] ±2,0 [%] | |
| 40 +4,0/-2,0 | 1000 ±15 [mm] | 1000 ±15 [mm] | |
| 50 +4,0/-2,0 | 1000 ±15 [mm] | 1000 ±15 [mm] | |

Table 2. Characteristics of GPT-W rubber plates

| Rubber characteristics | | | Class | | |
|--|----------------|-------|-----------------|-----------------|-----------------|
| | | | V1 | V2 | V3 |
| Tensile strength, min. | TS | [MPa] | 15 | | |
| Elongation at rupture, min. | E _b | [%] | 350 | | |
| Type A Shore's hardness | - | [°Sh] | 65 ±5 | 70 ±5 | 65 ±5 |
| Fire resistance - maximum burning time of a single sample | - | [s] | 15 | | |
| Working temperature | | [°C] | from -20 to +60 | from -10 to +60 | from -25 to +60 |
| Weight of 1 [m ²] plate with 1 [mm] thickness | | [kg] | 1,48 | 1,32 | 1,43 |

HANDLING USED PRODUCTS

Used products should be liquidated by means of recovery or storage on a landfill other than hazardous or inactive waste.

Wolbrom S.A. Conveyor Belt Factory (FTT)
ul. 1 Maja 100, 32 340 Wolbrom
e-mail: ftt@fttwolbrom.com.pl
www.fttwolbrom.com.pl



FTT WOLBROM®

Telephone exchange: +48 32 649 71 00
tel/fax: +48 32 649 71 01
Export Dept: +48 32 649 71 83 lub 88