APPLICATION AND WORKING CONDITIONS

Rubber-fabric conveyor belts, monopoly, flame resistant, GTP PWG are designed primarily to transport bulk materials in underground mines at any granularity. In order to guarantee safety of operation of the conveyor and the installed belts, it is recommended to transport materials which granulation does not exceed 300mm. The operational temperature of the belt should stay within the range between 5 °C to +60 °C. GTP PWG belts can work in mines extracting flammable and non-flammable material, methane and non-methane areas, classified as category “a”, “b” and “c” of methane explosion risk and class “A” and “B” of coal dust explosion risk. GTP monopoly belts can be used in the mining of flammable minerals (eg, coal) and non-flammable (eg, ore, salt, aggregates, etc.) must comply with the following safety requirements:

1) Law of general safety of products of December 12, 2003 (Law Gazette 229, point. 2275) along with subsequent amendments.
2) Directive of the Council of Minister of April 30, 2004 regarding products that May be approved to be used in mining industry (Law Gazette in 99, point 1003) along with subsequent amendments (Law Gazette in 80a’2005, point 695).
3) Directive of the Ministry of National Economy of December 22, 2005 regarding the basic requirements for protective devices and systems designed to be used in spaces with a risk of explosion (Law Gazette nr 263f2005, point 2203). These belts also fulfill requirements regarding physical and mechanical parameters of ISO 14890: 2004.

CONSTRUCTION OF THE BELT

Monopoly belts GTP PWG are manufactured of uniformly woven carcass, warp made of polyester (E) with cotton braid (B), weft made of polyamide with cotton (PB). Carcass solid woven type is soaked with PCW based solution with additions which guarantee flame resistant properties as well as covers and moulded edges, which are made of rubber grade L acc. to PN-EN ISO 14890: 2004, properties of rubber S acc. to ISO 433 it means flame resistant and anti-electrostatic.

GTP PWG belts are manufactured on the basis of the binding requirements specified in the national and European norms, what is confirmed in tests performed by certified laboratories of the Main Mining Institute as well as by permits issued by the Superior Mining Office.

STANDARD TYPES OF MONOPLY FLAME RESISTANT BELTS 14890 GTP PWG EBPB ISW MIN. 2+2 LS

<table>
<thead>
<tr>
<th>Symbol of the belt</th>
<th>Sign of admission</th>
<th>Tensile strength [N/mm] min.</th>
<th>Carcass weight [kg/m2]</th>
<th>Carcass thickness [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>14890 GTP PWG EBPB 1000 1SW</td>
<td>GM-108/07</td>
<td>1000</td>
<td>11,90</td>
<td>9,0</td>
</tr>
<tr>
<td>14890 GTP PWG EBPB 1250 1SW</td>
<td></td>
<td>1250</td>
<td>12,81</td>
<td>10,0</td>
</tr>
<tr>
<td>14890 GTP PWG EBPB 1400 1SW</td>
<td></td>
<td>1400</td>
<td>12,81</td>
<td>10,0</td>
</tr>
<tr>
<td>14890 GTP PWG EBPB 1600 1SW</td>
<td></td>
<td>1600</td>
<td>14,64</td>
<td>11,0</td>
</tr>
</tbody>
</table>

To calculate the weight of 1 [m2] of belt, you should add weight of the carcass to weight of the covers. Average weight of cover is 1.32 [kg] per 1 [mm]. Example: weight of belt 14890 1250 GTP PWG EBPB ISW 3 +2 LS is approx. 12.81+5 * 1.32 = 1941 [kg/m2]
MEAN VALUES OBTAINED IN — REDUCTION

<table>
<thead>
<tr>
<th>Elongation at a load equivalent 10% of nominal strength</th>
<th>Type 1000</th>
<th>max. 1.5%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Type 1250</td>
<td>max. 1.5%</td>
</tr>
<tr>
<td></td>
<td>Type 1400</td>
<td>max. 2%</td>
</tr>
<tr>
<td></td>
<td>Type 1600</td>
<td>max. 2.5%</td>
</tr>
<tr>
<td>Resistance to delaminating</td>
<td>Rubber covers of the carcass</td>
<td>min. 7 N/mm</td>
</tr>
</tbody>
</table>

SPECIFICATIONS OF THE BELTS IN ORDERS

Example of marking according to PN-EN ISO 14890: 2004 manufacturing standard

Where:
- **Quantity [lm]**
- **Width of the belt [mm]**
- **Manufacturing standard**
- **GTP (mining conveyor belt)**
- **Type of PWG belt**
- **Material of covers (polyester — polyamide with cotton)**
- **Tensile strength (type of belt) [N/mm]**
- **Carcass monoply, uniformly woven**
- **Thickness of rubber covers: upper and lower [mm]**
- **L — rubber grade of covers ace. PN-EN ISO 14890**
- **S — flame resistance and anti-static properties according to ISO 433**
- **Sign of admission WUG**

Parameters of covers rubber and diameters of reels and drums are specified in separate cards.

Apart from the presented standard series of types of belts, the producer will answer to any offer inquires regarding construction of the belt as well as selection of the class and thickness of the rubber covers.

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