

# OPTIFLEX SHEET

## AL / KY / AL-KY



It is an elastomeric rubber based insulation material in the form of sheet with closed cell structure. It is manufactured to be used for air conditioning, heating and cooling systems. It can be faced with aluminium foil and can be self-adhesive.

### Application

It is used on the exterior surfaces of the ducts and large diameter pipe lines in the heating, cooling and air conditioning systems for thermal insulation and condensation control purposes. For the spaces where there is heat transfer by radiation, using products faced with aluminium foil is recommended. The sheets are adhered to the duct surface by using a special adhesive that İzocam suggests. Joints should be tightly sealed and they should be covered with insulation tape afterwards if necessary. Taping should not result in thickness loss. For the application of self adhesive sheets there is no need to use any adhesive. The application should be protected against disruption and rupture. For the applications exposed to the sun, definitely a protective coat or a protective paint should be used. For indoor spaces getting day lighting, the products faced with aluminium foil can be used without requiring any coating against UV affect. For the outdoor applications, the surface should be coated within 5 days.

| Thickness (mm) | Width x Length (mm) | Package (m <sup>2</sup> ) |
|----------------|---------------------|---------------------------|
| 6              | 1000 x 36000        | 36                        |
| 9              | 1000 x 24000        | 24                        |
| 13             | 1000 x 18000        | 18                        |
| 19             | 1000 x 12000        | 12                        |
| 25             | 1000 x 9000         | 9                         |
| 32             | 1000 x 7000         | 7                         |
| 40             | 1000 x 6000         | 6                         |
| 50             | 1000 x 5000         | 5                         |

| Thickness (mm) | Width x Length (mm) | Package (m <sup>2</sup> ) |
|----------------|---------------------|---------------------------|
| 6              | 1200 x 32000        | 38,40                     |
| 9              | 1200 x 24000        | 28,80                     |
| 13             | 1200 x 16000        | 19,20                     |
| 19             | 1200 x 11000        | 13,20                     |
| 25             | 1200 x 8000         | 9,60                      |
| 32             | 1200 x 6000         | 7,20                      |



- Thermal insulation
- Condensation control
- CFC free
- Environment friendly
- Highly flexible



# TECHNICAL DATA SHEET

## Optiflex Sheet

| Properties                              | Symbol  | Unit  | Description                       |  |                    |                                |       |       | Tolerance                    | Standard      |        |
|---|---|-------|-----------------------------------|--|--------------------|--------------------------------|-------|-------|------------------------------|---------------|--------|
| Material                                | -   | -     | Elastomeric Rubber Foam           |  |                    |                                |       |       | -                            | TS EN 14303   |        |
| Material Type                           | -   | -     | Optiflex Sheet                    | Optiflex AL                                      | Optiflex KY        | Optiflex AL-KY                 |       |       |                              | -             |        |
| Facing                                  | -   | -     | Unfaced                           | Al-foil (18 $\mu$ , reinforced, non-combustible) | Self adhesive film | Al-foil, Self adhesive film    |       |       |                              | -             |        |
| Reaction to fire                        | -   | -     | E                                 |  |                    |                                |       |       | -                            | TS EN 13501-1 |        |
| Max. Service Temperature                | -   | °C    | -50 / 105                         |  |                    | -50 / 85                       |       |       | -                            | -             |        |
| Length                                  | l   | mm    | 3000 $\leq$ L $\leq$ 60000        |  |                    |                                |       |       | $\pm$ 1,5 %                  | EN 822        |        |
| Width                                   | w   | mm    | 1000 - 1200                       |  |                    |                                |       |       | $\pm$ 2 %                    | EN 822        |        |
| Thickness                               | t   | mm    | 6 $\leq$ d <sub>0</sub> $\leq$ 32 |  |                    | 6 < d <sub>0</sub> $\leq$ 50 * |       |       | d <sub>0</sub> $\leq$ 6      | $\pm$ 1,0     | EN 823 |
|   |   |       |                                   |  |                    |                                |       |       | 6 < d <sub>0</sub> $\leq$ 19 | $\pm$ 1,5     |        |
|   |   |       |                                   |  |                    |                                |       |       | d <sub>0</sub> > 19          | $\pm$ 2,0     |        |
| Declared Thermal Conductivity           | T   | °C    | -20                               | 0  | 20                 | 40                             | 60    | 80    | -                            | TS EN 12667   |        |
|   | $\lambda_D$   | W/m.K | 0,031                             | 0,034  | 0,036              | 0,037                          | 0,038 | 0,043 |                              |               |        |
| Water Vapor Diffusion Resistance Factor | $\mu$   | -     | $\geq$ 3000                       |  |                    |                                |       |       | -                            | EN 12086      |        |
| Resistance to Oils                      | -   | -     | Good                              |  |                    |                                |       |       | -                            | -             |        |
| Resistance to Weather Conditions        | -   | -     | Good                              |  |                    |                                |       |       | -                            | -             |        |
| Flexibility                             | -   | -     | Excellent                         |  |                    |                                |       |       | -                            | -             |        |
| Fungal Growth                           | -   | -     | None                              |  |                    |                                |       |       | -                            | -             |        |
| Packaging Material                      | -   | -     | PE Film                           |  |                    |                                |       |       | -                            | -             |        |
| Other Information                       | It is appropriate to DIN 1988/7 relating to corrosion. Product contains less than 0,2 % ammonium and less than 0,05 % chlorine ion that dissolved in water. |       |                                   |  |                    |                                |       |       |                              |               |        |

\* Standard product dimensions d<sub>0</sub>xl (mm):  
6x36000, 9x24000, 13x8000, 19x12000, 25x9000, 32x7000,  
40x6000, 50x5000; b (mm):1000

### Safety Reminders for Loading, Unloading, Shipping and Storing

- These operations should be done indoors in case of rainy weather conditions.
- Loading and unloading should be done by (at least) two people.
- The products should be wrapped by a waterproof cover during shipping.
- When the packages piled in the truck body are being tied up hard padding (wood, cardboard, etc.) should be put on the corners of the packages to protect them against possible damages by ropes.
- Only backshutter of the truck body should be opened during unloading.
- Storage should be done indoors and the packages should be put over flat floor.
- Maximum 4 packages of the sheets should be superposed.
- Packages should not be put into upright position.
- Packages should not be stepped on and should not be used as steps.
- Products should not be unloaded by pushing or throwing from the truck.
- The truck should not be moved without wrapping and binding the packages.
- The products should not be exposed to sun.
- Storage area should not be wet.

Izocam is not responsible for any problem because of misprinting. Izocam, the manufacturer, reserves the right to alter product specifications without prior notice. Izocam also manufactures special products upon request. For your requirements, you are requested to contact our Export Department.

