



ILPOFLEX – BS - Flexible polyurethane foam Data sheet

Mechanical properties

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|--|-------------|-------------------|-------|-------|-------|
| Average density | ASTM D 3574 | Kg/m ³ | 68 | | |
| Compression Load Deflection (CLD) – Stress 25% | ISO 3386-1 | KPa | 4,00 | 6,20 | 10,40 |
| Compression Load Deflection (CLD) – Stress 40% | ISO 3386-1 | KPa | 5,50 | 8,50 | 14,40 |
| Compression Load Deflection (CLD) – Stress 65% | ISO 3386-1 | KPa | 13,60 | 21,50 | 37,50 |
| Compression set | ASTM D 3574 | % | 10,2 | 6,8 | 7,5 |
| Tear Strenght | ASTM D 3574 | N/mm | 0,18 | | |
| Tensile Stress | ASTM D 3574 | KPa | 90 | 110 | 140 |
| Elongation at break | ASTM D 3574 | % | 75 | 59 | 47 |
| Dynamic Fatigue - Loss of stiffness | FIAT method | % | 29,2 | | |
| Dynamic Fatigue - Loss of thickness | FIAT method | % | 3,1 | | |

These values are based on individual measurements, are given only as a guide and must be verified in each individual case on finished parts manufactured under the processor's production conditions.

Fire performances

BS 5852:1982 PART 2 : with the density of 68 kg/m³, ILPOFLEX – BS achieves the requirements of “Furniture and furnishings (fire) (safety) regulations 1998 – amended 1989, 1993 and 2010 - schedule 1 - part 1 - for polyurethane foam (based on BS 5852: 1982 part 2)

The methods described in this data sheet for testing the fire performance of polyurethane and the results quoted, do not permit direct conclusions to be drawn regarding every possible fire risk there may be under service conditions.

Furthermore, this does not release the producer of the finished parts from his obligation to carry out suitable tests on his end product with respect to fire performance and/or fire risk in order to guarantee conformity with the required fire safety standard.

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