



ILPOFLEX – 1IM - Flexible polyurethane foam

Data sheet

Mechanical properties

Index	-	-	1	4	8
Average density	ASTM D 3574	Kg/m ³	55		
Compression Load Deflection (CLD) – Stress 25%	ISO 3386-1	KPa	2,90	6,00	11,40
Compression Load Deflection (CLD) – Stress 40%	ISO 3386-1	KPa	3,70	7,90	15,60
Compression Load Deflection (CLD) – Stress 65%	ISO 3386-1	KPa	8,20	18,20	39,60
Compression set	ASTM D 3574	%	10,1	7,4	11,8
Tear Strenght	ASTM D 3574	N/mm	0,25	0,25	0,27
Tensile Stress	ASTM D 3574	KPa	140	200	250
Elongation at break	ASTM D 3574	%	115	89	65
Dynamic Fatigue - Loss of stiffness	FIAT method	%	27,9		
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

UNI 9175:2010 : with the density of 55 kg/m³, ILPOFLEX – 1IM achieves the classification 1IM in accordance with the Italian norm UNI 9175:2010

California Technical Bulletin 117:2013 (Section 3 – Resilient filling material test) : with the density of 60 kg/m³, ILPOFLEX – 1IM achieves the requirements of this Norm.

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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