ILPODUR
expanded rigid polyurethane
data sheet

Mechanical and electrical properties, measured on specimens cut from a 1000 x 500 x 10 mm sheet:

Average density		Kg/m^3	600
Tensile strength	DIN EN ISO 527	MPa	17
Elongation at break	DIN EN ISO 527	%	8
Flexural strength (rupture)	DIN 53423	N/mm^2	34
Flexural modulus of elasticity	DIN 53423	N/mm^2	920
Impact strength	DIN EN ISO 179	kJ/m^2	14
Surface hardness Shore D			70
Compressive strength (at 10% strain)	DIN EN 826	MPa	19
Heat deflection temperature	DIN EN ISO 75-2	°C	90
Thermal conductivity	DIN 53432	W/(°K m)	0,09
Coefficient of linear thermal expansion (20° C)	VDE 0304/TI.1	10^{-6} m/m °K	73
Dielectric strength	DIN 53481	KV/mm	≈ 10
Volume resistivity	DIN 53482	Ω cm	≈ 7×10^{14}
Surface resistance	DIN 53482	Ω	≈ 10^{14}
Tracking resistance	DIN IEC 112		CTI 600

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 performance:

UL 94 V: with wall thicknesses above 7mm, ILPODUR achieves the flammability rating V-0.

DIN-4102: with wall thicknesses of 7mm ILPODUR achieves the flammability rating B2.

The methods described in this pubblication 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 obbligation 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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