

TECHNICAL DATA BAYDUR®110FR-N

Property	Units	Standard	Baydur®110FR-N
Optimum thickness	mm		3-8
Draft Angle			1°
Integration of threaded inserts			Possible
Snap joints			Possible using special insert
Density	Kg/m ³	DIN EN ISO 845	1050
Flexural modulus of elasticity	N/mm ²	DIN EN ISO 178	2000
Flexural strength at 3.5 % strain in outer fibers	N/mm ²	DIN EN ISO 178	58
Tensile strenght	N/mm ²	DIN EN ISO 527	50
Elongation at break	%	DIN EN ISO 527	12
Impact strength at 22 °C	KJ/m ²	DIN EN ISO 179	50
Heat deflection temperature Method B (0.45 MPa)	°C	DIN EN ISO 75-2	105
Coefficient of linear thermal expansion	1/K	ASTM E 831	100*10-6
Surface hardness Shore D			75-77
Water absorption (50*40*10 mm)	%	DIN 53495	< 0,6

Electrical Property	Units	Standard	Baydur®110FR-N (specimen at 3mm)
Resistività di superfice	Ω	ASTM D257	9,7 ^{15(3mm)}
Resistenza spec. al passaggio di corrente	Ω*m	ASTM D257	5,4 ^{13(3mm)}
Rigidità dielettrica	kV/mm	ASTM D149	21 ^(3mm)

Mechanical, thermal, and other properties were measured on specimens cut from a 1,000 x 500 x 10 mm sheet and these values are given only as a guide and must be verified in each individual case on finished parts manufactured.

FIRE PERFORMANCE UL 94V

Baydur®110FR-N, Baydur® 110 FR-2N, Baydur®110FR-3 and Baydur®11 FR-6 Baydur®110FR are the flame retardant versions of Baydur®110 and contain ammonium polyphosphate.

Name	Density range	Wallthickness	Fire rating
Baydur 110 FR-N colorazione nera	1000 - 1100 kg/m ³	da 3,5 mm	UL-94 V0
Baydur 110 FR-2N (NC)	1000 - 1100 kg/m ³	da 3 mm	UL-94 V0
Baydur 110 FR-2N (BK)	1000 - 1100 kg/m ³	da 3,5 mm	UL-94 V0
Baydur 110 FR-3	1000 - 1100 kg/m ³	da 4 mm	UL-94 V0 e 5VA
Baydur 110 FR-6	1000 - 1100 kg/m ³	da 3,1 mm	UL-94 V0

The products are listed by Underwriters Laboratories Inc. under File n°: E83364.

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DIN-4102:

Without the addition of flame retardants, at a density of approx. 1050 kg/m³ and with wall thicknesses of 4 mm the system achieve the flammability rating B2 (DIN 4102).

The methods described in this publication 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 the 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.