

F1 Model Block

Applications	Properties
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• Block supplied manufactured to the size specified in the F1 In Schools Technical Regulations

- very fine structure
- easily worked by machine or hand

Processing data

Product	F1 Model Block
Colour	light green
Density at 20°C	g / cm ³ 0,163 ± 0,012

Physical data

Properties	Inspect. requirem.	Unit	Value
tensile strength perpendicular	ASTM D 1623 Methode A	MPa	2,4
tensile strength parallel	ASTM D 1623 Methode A	MPa	2,6
Shear strength perpendicular	ISO 1922	MPa	1,25
Compressive strength parallel	ISO 844	MPa	2,6
Compressive strength perpendicular	ISO 844	MPa	2,0
working operating temperature	-	°C	-180 bis +120
Heat conductivity 10° C at beginning	-	mW/m°K	31
Heat conductivity 24° C at beginning	-	mW/m°K	-
Heat conductivity 10° C after 10 days	-	mW/m°K	35
Heat conductivity 10° C after 180 days	-	mW/m°K	39
Heat conductivity 24° C after 180 days	-	mW/m°K	-
Shore hardness	DIN 53505	Shore A	70
Coefficient of linear expansion	DIN 53752	10-6 K-1	ca. 57
Dimens. stability X=Lergth/48h at -25°C	ISO 2796	max %	X-Y 0,1 / Z 0,1
Dimens. stability Y=Lergth/48h at 100°C	ISO 2796	max %	X-Y 1,0 / Z 1,0
Dimens. stability Z=Lergth/48h at 70 90%°C	ISO 2796	max %	X-Y 1,0 / Z 1,0
Closed-cell character	-	-	92
Water absorption	ISO 2896	%	3
Permeability of water vapor	ISO 1663	gr/m ² 24h	15
Flammability classification	DIN 4102	class	B 2
Flammability classification	ISO 3582	mm	<30

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In General

The **F1 Model Block** is a polyurethane based block material which can be easily processed by hand and machine. The product contains no halogen's, plasticisers, formaldehyde or solvents. No chlorofluorocarbon is used during manufacture of the product and it is proven biologically friendly.

Advantages:

Very fine surface structure

Easy to machine and work by hand, contains no abrasive fillers

Dimensional tolerance of 1-2 % is possible.

Processing instructions

Hand finishing, sealing and painting instructions can be found on the F1 Model Block Paint Guidance Instructions Sheet.

Storing

The F1 Model Block has an unlimited shelf life when stored in flat dry conditions.

Safety measures

The **F1 Model Block** material does not produce hazardous dusts when machining or hand finishing, however minimising the formation of dust and the use of personal protective equipment is advised. Users should refer to the current Safety Data Sheet for additional information.

According to regulations for hazardous products the **F1 Model Blocks** do not require special marking for transport or storage.

Waste Disposal

Small quantities can be disposed of as domestic waste, it is advisable to consult your organisations waste disposal directives and any applicable local authority guidelines. Further questions please do not hesitate to contact our Technical Department.

Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Technical Data Sheet has been prepared by the Technical Department at Denford Ltd.