

General

Test Method	Standard	Property/Attribute	Unit	Performances
Flexural modulus	EN ISO 178	Stress	MPa	9000
Flexural strength	EN ISO 178	Stress	MPa	80
Method for determining the density	ISO 1183-1	Density	kg/m ³	1350
Determination of thermal resistance	EN 12664:200	Thermal conductivity	W/m K	0.25
Standard Test Method for Coefficient of Linear Thermal Expansion	ASTM D696 - 16	Coefficient of linear thermal expansion	°C -1	L ≈ 1.6 x 10 ⁻⁵ T ≈ 3.5 x 10 ⁻⁵

Fire Performance

Test Method	Standard	Classification	
Small flame and radiant panel	UNI 8457 UNI 9174 UNI 9177	Class 1	
Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components	EN 45545-2: 2013	3 ≤ t ≤ 25 mm HL1 - HL2	
Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests	EN 13501-1	t ≥ 2 mm t ≥ 6 mm t ≥ 12 mm	D-s2,d0 C-s2,d0 B-s1,d

General

Test Method	Standard	Property/Attribute	Unit	Requirement	Performances
Thermal conductivity	DIN 52 612	-	W/m .°K	0,25	0,25
Coefficient of linear thermal expansion	ASTM D 696	-	°C -1	L = 1,6 x 10 -5 ca. T = 3,5 x 10 -5 ca	L = 1,6 x 10 -5 ca. T = 3,5 x 10 -5 ca.
Tensile strenght	EN ISO 527-2	Stress	MPa	L 100 T 70	L 100 T 70
Flexural strength	EN ISO 178	Stress	MPa	L 100 T 90	L 140 T 100
Flexural modulus	EN ISO 178	Stress	MPa	L 10.000 T 9.000	L 14.000 T 10.000
Density	ISO 1183-1	Density	g/cm3	1.35	1.4

Fire Performance

Test Method	Standard	Classification
Reaction to fire	EN 13501-1	C,s2-d0
Spread of flame	BS 476-7	Class 2
Brandschacht	DIN 4102-1	B2
Epiradiateur	NF P 92-501	M2
Brandkennziffer	VKF	5.3