



Ultrafuse[®] material overview - railway classification

BASF Forward AM responds to the needs of its customers. So our high performance materials performed the tests according to EN 45545-2 with a part thickness of 1.5 and 3.0 mm to fulfill the needs of the railway industry.

1.5 mm / 3.0 mm	PC/ABS FR	PC GF30	PPSU
classification	HL1-3 R26	HL1-3 R26, R24, R23, R22	HL1-3 R26, R24, R23, R7
UL94	V0	V0	V0
Oxygen Content	-	>32 % _{Oxygen}	>32 % _{Oxygen}
CIT (NFX)	-	0.2	1.3
CITg (50 kW/m ²)	-	-	0.14 / 0.17
Smoke VOF4 (50 kW/m ²)	-	-	32 / 32
Smoke DS(4) (25 kW/m ²)	-	19 / 89	2 / 2
Smoke DS(4) (50 kW/m ²)	-	-	88 / 104
Heat Release MARHE (50 kW/m ²)	-	-	73 kW/m ² / 57 kW/m ²
Spread of Flame CFE	-	-	50.7 kW/m ² / 48.6 kW/m ²