



F.R.A.N.C. V0-TEMP Fire Resistance ABS-PC Not Chrome

PC-ABS advanced resin meets the requirements of
EN 45545-2, R22, R23, HL1, HL2

SUGGESTED PRINT SETS (1)			
Suggested print sets	unit	value	test method
extruder temp	C°	260-280	internal
plate temp	C°	90-110	internal
min. nozzle diameter	mm.	0.4	internal
fan	%	0-20	internal
print speed	mm/l°	25-35	internal
PROPERTY			
Physical			
Density	kg/m ³	1180	ISO 1183B
Mechanical			
Tensile strength at Break (50 mm/min)	MPa	54	ISO 527-2
Tensile elongation at Break (50 mm/min)	%	120	ISO 527-2
Tensile Modulus (1 mm/min)	MPa	2700	ISO 527-2
Flexural Modulus (2 mm/min)	MPa	2750	ISO 178
Charpy notched impact (23°C)	kJ/m ²	46	ISO 179/1eA
Charpy notched impact (-30°C)	kJ/m ²	13	ISO 179/1eA

Disclaimer

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PROPERTY			
Thermal			
Deflection Temp. under load 1.8 MPa	°C	86	ISO 75-A
Vicat softening temp.	°C	104	ISO 306-B50
Electrical			
Relative Permittivity 100Hz	-	3.2	IEC60250
Relative Permittivity 1MHz	-	3.1	IEC60250
Dissipation Factor 100Hz	-	5E-03	IEC60250
Dissipation Factor 1MHz	-	7E-03	IEC60250
Surface Resistivity	Ohms	1.0E+16	IEC60093
Volume Resistivity	Ohm-cm	1.0E+16	IEC60093
Dielectric Strength	kV/mm	30	IEC60243
Comparative Tracking Index	V	300	IEC60112
Flammability			
Classification at 1.5mm	-	V0	UL94
Classification at 2mm	-	5VB	UL94
Classification at 3mm	-	5VA	UL94
Glow Wire Index	°C	960	IEC60695-2-12
Limiting Oxygen Index	%	32	ISO 4589-2

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ADDITIONAL INFORMATIONS

In general filaments made with F.R.A.N.C.V0-TEMP (PC-ABS) can be processed on conventional 3D printer using FDM / FFF technology.

F.R.A.N.C.V0-TEMP (PC-ABS) is a 50/50 polymer alloy developed for 3D printing and to obtain best results we recommend pre drying the filaments at 80°-100° for 3/4 h. Increase drying time for spools up to 1 kg.

Don't leave the filament stopped inside the nozzle more than 20 min. If that down the temperature under 210°, better stop the thermal control.

(1) Suggested print set merely represent a recommendation for general use . Every printer necessity a specific set , nozzle temp, bed temp, etc .

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Declaration of conformity

We hereby certify that the product F.R.A.N.C. V0 can meet the requirements of certifications :

DIN VDE 0472/Part 815 as Halogen free
Certified UL94V0 at 1.5 mm. and 5VA at 3.0 mm.
EN 45545-2 - R22 - R23 - HLI - HL2

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