

# Flame Retardant Resin

## FR Resin

Flame Retardant resin stands out among MSLA resins due to its flame retardant and self-extinguishing properties.



## Material properties

Density	ASTM D792	1,32	g/cm <sup>3</sup>
Water absorption at saturation	ASTM D570	>5	%
Hygroscopicity	ASTM D570	0,65	%
Suitability for food contact		NO	
Tensile strength	ASTM D638	78	MPa
Elongation at break	ASTM D638	3	%
Elastic modulus	ASTM D638	3900	MPa
Flexural strength	ASTM D790	115	MPa
Resilience	ISO 179	0,9	kJ/m <sup>2</sup>
Hardness	ASTM D2240	88 D	Shore
HDT 0.45 MPa	ASTM D648	255	°C
HDT 1.8 MPa	ASTM D648	86	°C
Flammability	UL94	V-0	
Volumic electrical resistivity	DIN EN 62631-3-1	2,2*10 <sup>15</sup>	Ω*m

### Printing layer height

0,10 mm (0,004 in)

### Maximum dimensions

274x155x400 mm (10.8x6.1x15.7 in)

### Tolerances

± 0,30mm < 100mm / ± 0,3% > 100mm

### Applications

Applications where a flame-retardant material is required

### Certifications

UL94 V-0 classification

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