

## ABS FP

Self-extinguishing flame-retardant ABS, tested under conditions according to UL94 regulations, opting for the category of V-1 for thicknesses of 1.5mm and V-0 for thicknesses greater than 2.1mm, ideal to protect systems with risk of ignition.



Thermal resistance



Fireproof



Machinable



	VALUES		UNIT OF MEASUREMENT	STANDARD	
<b>PHYSICAL PROPERTIES</b>					
Chemical name	Acrylonitrile Butadiene Styrene additivated				
Density	1,17		g/cm <sup>3</sup>	ISO 1183	
<b>MECHANICAL PROPERTIES<sup>1</sup></b>					
	XY PLANE	XZ PLANE			
Tensile strength	25,3	21	MPa	ISO 527	
Traction module	-	-	MPa	ISO 527	
Flexion strength	67,1	45	MPa	ISO 178	
Flexion module	1913,4	2064,7	MPa	ISO 178	
Elongation at maximum effort	1,4	0,8	%	ISO 527	
Stretch traction at break	1,7	0,9	%	ISO 527	
Elongation by flexion at break	8,9	2,7	%	ISO 178	
Charpy Impact Force (non-notched)	43	5,3	kJ/m <sup>2</sup>	ISO 179	
Hardness	-	-	Shore D	ISO 7619-1	
<b>THERMAL PROPERTIES</b>					
Glass transition temperature (Tg)	94		°C	ISO 11357	
VICAT B (50 N 50°C/h)	93		°C	ISO 306	
HDT B (0,45 MPa)	85		°C	ISO 75	
<b>PRINTING PROPERTIES</b>					
Printing temperature	215 - 235		°C		
Bed temperature	80 - 100		°C		
Layer fan	0 - 20		%		
Material flow	100		%		
Layer height	≥ 0,2		mm		
Nozzle recommendations	≥ 0,4		mm		
Print speed	30 - 50		mm/s		
<b>SIZE</b>					
SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOR	PACKAGING
M	750 g	975 g	1,75 mm/2,85 mm	Natural, black	Innovatefil box

NOTICE: The information provided in the data sheets is intended for reference only. It should not be used as design or quality control values. Actual values may differ significantly depending on printing conditions. The final performance of printed components not only depends on materials, design and printing conditions are also important.