



TECHNICAL DATA SHEET

FILAFLEX SEBS

Description

Filaflex SEBS by Recreus is a rubber-based 3D printing filament characterized by combining the flexibility and durability of the Filaflex range with other properties such as insulation, impermeability or chemical resistance, achieving a magnificent final finish of the part and a filament of great technical and industrial applicability.

Physical Property	Value	Unit	Test method according to
Material density	0,906	g/cm3	ISO 1183

Mechanical Property	Value	Unit	Test method according to
Hardness	90	shore A	DIN ISO 7619-1 (3s)
Elongation at break	146	%	DIN 53504-S2
Tensile modulus (Young)	83	MPa	ISO 527
Stress at 100% elongation	7,2	%	DIN 53504-S2
Stress at 300% elongation	11,7	%	DIN 53504-S2
Tear strength	73,5	N/mm	ISO 34-1
Abrasion resistant	230	mm3	ISO 4649

Thermal Property	Value	Unit	Test method according to
Combustibility O2 index	23	%	ISO 4589-1/-2
Burning behaviour	HB	CLASS	UL 94
Yellow Card Available	yes		
Glass Transition Temperature 10°C/min	-42	°C	ISO 11357-1/-2
VST Vicat Softening Temperature	113	°C	Método Vicat A: 10 Nw, 120°C/h
Thermal Conductivity	0,3	W/(mK)	DIN 52612-1
Coeficient Thermal Expansion at 23°C	210	1/K	ISO 11359-2

Electrical Property	Value	Unit	Test method according to
WDD Water Vapor Permiability	17	g/m2d	ISO 15106-2
Dielectric factor 1MHz	6		IEC 62631-2-1
Dissipation factor, 100Hz	300	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	950	E-4	IEC 62631-2-1
Volume resistivity	1,00E+10	Ohm*m	IEC 62631-3-1
Electric strength	35	kV/mm	IEC 60243-1
CTI Comparative tracking index	600		IEC 60112

Printing properties	Recommended
Printing temperatures	215 - 250°C
Printing speed	20 - 60 mm/s
Hot-bed temperature	0°C
Optimal layer height	0.2 mm
Minimal nozzle diameter	0.4 mm or higher
Retraction parameters	3.5 - 6.5 mm (speed 20 - 160 mm/s)