SMART3D **Materials**

PC-ABS v0 · Technical Data Sheet

General Features

Chemical Name Polycarbonate - Acrylonitrile Butadiene Styrene	**Benefits** • Heat resistant and flame retardant • High impact strength • Good resolution and surface finish

Filament Charcteristics

Diameter	Ø 1.75mm
Meters per spool	273.520m
Weight per meter	2.74g
Tolerance	±0.05mm

Material Properties

		Typical value	ASTM Method
Specific gravity	g/cm3	1,17	ISO 1183
MFR 260°C/5 kg	g/min	43 /10	ISO 1133
Yield Stress	MPa	60 MPa	ISO 527
Strain at break	%	>50	ISO 527
E-modulus	MPa	2850	ISO 527
Flexural Strength	MPa	2800	ISO 178
Flexural Modulus	MPa	110	ISO 178
Impact Strength Charpy method 23°C Notched	kJ/m2	42,5	ISO 179
Printing temp.	°C	260±10	DF
Vicat Softening Temp	°C	104	ISO 306
Flammability-rating		V0	UL-94

Storage
Cool and dry (15-25˚C) and away from UV light. This enhances the shelf life significantly.