



Apium ABS ESD

Acrylonitrilebutadienestyrene, a technical polymer compound; ESD- Electrostatic Discharge

Description of the Material:

Apium ABS ESD, Ø1,75 mm - Low weight, post treatment possible, little warping, ESD grade

Applications:

ABS ESD is a technical polymer designed for additive manufacturing. Due to the reduced warping and ESD grade it can be used for prototyping and industrial electronic parts

Material Properties: Filament and printed sample (Open Source 3D printer) properties

	Conditions	Test Methodology	Unit	Value
Mechanical Properties				
Tensile Modulus	23 °C	ISO 527	MPa	2130
Tensile strength, Break	23 °C	ISO 527	MPa	58
Elongation at break	23 °C	ISO 527	%	4
Flexural Strength	23 °C	ISO 178	MPa	80
Flexural Modulus	23 °C	ISO 178	MPa	2275
Thermal Properties				
Melting Temperature			°C	330-350
Glass Transition Temperature		DSC	°C	105
Decomposition Temperature				-
Miscellaneous				
Density	Amorphous	ISO 1183	g/cc	1.09
Electrical Properties				
Volume Resistance		IEC 60093	Ω	-
Surface Resistance		ASTM D257	Ω/sq	>10 ⁷ - 10 ⁹ <
Fire, Smoke and Toxicity				
Glow Wire Test	2 mm Thickness	IEC 60695-2-12	°C	-
Oxygen Index	0.4 mm Thickness	ISO 4589	%	-
Toxicity Index	CO ² Content	NES 713	n/a	-
Flame Retardancy Class				-

Important remarks:

- The data have been generated for Apium Additive Technologies in accordance with applicable national, international and internal standards and are intended for material comparison. Typical values may vary depending on part geometry and processing parameters.

For further information and detailed data please contact us.

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