Fused Deposition Modeling (FDM)

ABS-ESD7 (Industrial grade)

Key Features

Electrostatic dissipativity • Impact resistance

Applications

Prototyping • End-use parts • Jigs and fixtures • Aerospace • Automotive • Electronics

Product Description

ABS-ESD7 combines ABS with carbon to offer electrostatic dissipative (ESD) properties, ideal for static-sensitive applications. This ABS thermoplastic prevents static electricity buildup, making it suitable for creating prototypes, fixtures, and support equipment for electronics. ABS-ESD7 is perfect for jigs, fixtures, and production line parts, as well as functional prototypes and enclosures in electronics manufacturing.

Properties

Tensile modulus (XZ, ZX)	2,690, 2,280 MPa
Tensile strength @ break (XZ, ZX)	33.9, 27 MPa
Elongation at break (XZ, ZX)	3.4, 1.59 %
Flexural strength @ 5% strain	67.5 MPa
Flexural modulus (XZ, ZX)	2.41, 2.04 MPa
Heat deflection temperature (0.45 MPa)	104.6°C
Heat deflection temperature (1.80 MPa)	101.4°C
Thermal conductivity (ASTM E1952 @30°C)	0.3141 W/m*K
Glass transition temperature	105.4°C
Density	1.04 g/cm^3

Reference

For more detailed source information, please consult the original document linked here. We encourage users to verify the data's relevance and suitability for their specific needs.