Antero™ 840CN03

PEKK-Z3 — Stratasys Ltd.

Product Texts

Antero™ 840CN03 is a PEKK-based FDM thermoplastic with electrostatic dissipative (ESD) properties. The material is filled 3% by weight with carbon nanotubes.

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	**150**	°C	ASTM D 648
DTUL @ 264 psi	**153**	°C	ASTM D 648
Other Standards[S]			
Coefficient of Thermal Expansion, MD	**50.4**	E-6/K	ASTM E 831
Glass Transition Temperature	**158**	°C	ASTM D 7426

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Density	**1270**	kg/m³	ASTM D 792

3D Data	Value	Unit	Test Standard
Tensile modulus, on-edge	**3170[1]**	MPa	-
Tensile modulus, upright	**3010[2]**	MPa	-
Stress at break, on-edge	**65[1]**	MPa	-
Stress at break, upright	**50[2]**	MPa	-
Strain at break, on-edge	**6[1]**	%	-
Strain at break, upright	**1.8[2]**	%	-
Flexural modulus, on-edge	**3240[3]**	MPa	-
Flexural modulus, upright	**2700[4]**	MPa	-

1: XZ-direction; reference to ASTM D638 2: ZX-direction; reference to ASTM D638 3: XZ-direction; reference to ASTM D790 4: ZX-direction; reference to ASTM D790

Characteristics

Processing
Additive Manufacturing

Delivery form
Monofilament

Special Characteristics
Heat stabilized or stable to heat

Chemical Resistance
General Chemical Resistance

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa