

MATERIAL TECHNICAL DATA SHEET

RC SERIES

Ceramic-filled, high-temperature resins for tough and stiff parts at extremely high resolutions.

ETEC's RC materials contain ceramic particles allowing for tough and stiff parts with high-temperature resistance. The ability to create parts at very high resolutions makes these materials ideal for applications like custom connectors and high detail mold masters. The wide variety of finishing methods for these materials – including painting and plating – make them popular for animation applications.

MATERIAL PROPERTIES*

	RC25/RC30	RC31
Tensile Strength	46 MPa	35.4 MPa
Elongation at Break	2.5%	2.5%
Flexural Strength	102 MPa	102 MPa
Flexural Modulus	3,860 MPa	3,860 MPa
Izod Impact, Notched	0.0016 KJ/m ²	0.0016 KJ/m ²
Hardness, Shore D	93.1	93.1
Heat Deflection Temperature @ 0.455 MPa	67 °C	67 °C
Heat Deflection Temperature @ 1.82 MPa	53.6 °C	53.6 °C
	RC70	RC90
Tensile Strength	39 MPa	38 MPa
Elongation at Break	2.9%	2.7%
Flexural Strength	106 MPa	104 MPa
Flexural Modulus	3,760 MPa	3,800 MPa
Izod Impact, Notched	N/A	N/A
Hardness, Shore D	N/A	N/A
Heat Deflection Temperature @ 0.455 MPa	93 °C	73 °C
Heat Deflection Temperature @ 1.82 MPa	N/A	N/A

RECOMMENDED PRINTER PLATFORMS

- D4K
- P4K

*Specifications are subject to change without notice.