

Applied Dental Inc. *General Characteristics of Sutures*

SUTURE	SURGICAL GUT	SURGICAL GUT	POLYGLYCOLIC ACID (PGA)	RAPID POLYGLYCOLIC ACID (RPGA)	POLYDIOXANONE (PDO)	POLIGLECAPRONE 25 (MONOCRYL)	SILK	NYLON	POLYPROPYLENE
TYPES	Plain	Chromic	Braided	Braided	Monofilament	Monofilament	Braided	Monofilament	Monofilament
COMMON MATERIAL COLOR	Yellowish Tan	Blue	Violet	Undyed (Natural)	Violet	Violet	Black	Black	Blue
RAW MATERIAL	Collagen from beef and sheep	Collagen from beef and sheep	Copolymer of lactide and glycolide	Copolymer of lactide and glycolide	Copolymer of polydioxanone	Copolymer of glycolide and epsiloncaprolactone (PGCL)	Organic protein called fibroin	Long-chain aliphatic polymers	Long-chain polyolefin polymers
TENSILE STRENGTH	Low	Low	High	High	Moderate	Moderate	Moderate	Moderate	High
TENSILE STRENGTH RETENTION (IN VIVO)	3-5 days	7-10 days	28-35 days	10-14 days	55-65 days	7-21 days	Progressive degradation of fiber results in gradual loss in tensile strength	Progressive hydrolysis results in gradual loss of tensile strength	No significant changes known to occur in vivo
TISSUE INFLAMMATORY REACTION	Moderate	Moderate	Minimal	Minimal	Slight	Slight	Mild to Moderate	Minimal	Minimal
INDICATIONS/ CONTRAINDICATIONS	<p>Exhibits mild tensile strength. Used for approximating tissues with little tension.</p> <p>Absorbable and should not be used where extended approximation of tissues under stress is required.</p> <p>Should not be used in patients with known sensitivities or allergies to collagen.</p>	<p>Exhibits mild tensile strength. Used for approximating tissues with little tension.</p> <p>Absorbable and should not be used where extended approximation of tissues under stress is required.</p> <p>Should not be used in patients with known sensitivities or allergies to collagen or chromium</p>	<p>Periodontal surgery, implant surgery, oral maxillofacial surgery.</p> <p>Exhibits high tensile strength. Can be used to resist muscle pull.</p> <p>Absorbable and should not be used where extended approximation of tissue under stress is required.</p>	<p>Periodontal surgery, implant surgery, oral maxillofacial surgery.</p> <p>Exhibits high tensile strength. Can be used to resist muscle pull.</p> <p>Absorbable and should not be used where extended approximation of tissue under stress is required.</p>	<p>Exhibits moderate tensile strength. Used for approximating tissues with little tension.</p> <p>Absorbable and should not be used where extended approximation of tissue under stress is required.</p>	<p>Exhibits moderate tensile strength. Used for approximating tissues with little tension.</p> <p>Absorbable and should not be used where extended approximation of tissue under stress is required.</p>	<p>Periodontal surgery, implant surgery, oral maxillofacial surgery.</p> <p>Should not be used in patients with known sensitivities or allergies to silk.</p>	<p>Periodontal surgery, implant surgery, oral maxillofacial surgery.</p> <p>As with any non-absorbable nylon suture, progressive hydrolysis of the suture in tissue may result in gradual loss of tensile strength over time.</p>	<p>Periodontal surgery, implant surgery, oral maxillofacial surgery.</p> <p>Polypropylene is not affected or weakened by tissue enzymes and is not subject to any degradation or loss of tensile strength</p>