

Plastic Material Selection Guide

Acronym Common Name Trade Name

Amorphous Plastics			Bonding	Chemical Resistance	Creep Resistance	Dielectric Strength	Dimensional Stability	Heat Resistance	Impact Strength	Reinforcement	Strength & Stiffness	Surface Finish	Toughness	Wear Resistance	USP Class VI	ISO 10993	Implantable	High Flow into Thin Walls	Laser Friendly	Micromachining Friendly	Metal Replacement	Autoclave	EtO	Radiation
PC	Polycarbonate	Lexan®	+	+	+	+	+	+	+				+		+	+			+	+			+	+
PC	Polycarbonate	CALIBRE™	+		+	+	+	+	+				+		+	+			+	+			+	+
PEI	Polyetherimide	Ultem®	+	+	+	+	+	+			+	+	+		+					+	+	+	+	+
PES	Polyethersulfone	Radel®A			+	+	+						+							+			+	+
PPSU	Polyphenylsulfone	Radel®R		+	+	+	+	+	+				+		+	+				+			+	+
PPSU	Polyphenylsulfone	Veriva®		+	+	+	+						+		+	+							+	+
PSU	Polysulfone	Udel®	+	+	+	+	+	+			+		+		+	+				+			+	+
PSU	Polysulfone	Eviva®	+	+	+	+	+	+			+		+		+	+				+			+	+
SRP	Self-Reinforced Polyphenylene	PrimoSpire®		+	+		+				+	+	+		+	+			+	+			+	
SRP	Self-Reinforced Polyphenylene	Proniva®		+	+		+				+	+	+		+	+			+	+			+	
TPU	Thermoplastic Urethane	ChronoThane™													+				+				+	+
TPU	Thermoplastic Urethane	Pellethane™																	+	+			+	
Semi-Crystalline Plastics			Bonding	Chemical Resistance	Creep Resistance	Dielectric Strength	Dimensional Stability	Heat Resistance	Impact Strength	Reinforcement	Strength & Stiffness	Surface Finish	Toughness	Wear Resistance	USP Class VI	ISO 10993	Implantable	High Flow into Thin Walls	Laser Friendly	Micromachining Friendly	Metal Replacement	Autoclave	EtO	Radiation
LCP	Liquid Crystal Polymer	Vectra®		+	+	+	+	+		+	+			+	+	+			+		+		+	+
PARA	Polyarylamide	Ixef®		+	+		+			+	+	+		+	+	+			+		+		+	+
PEBA	Polyetherblockamide	Pebax®		+					+	+		+		+	+				+	+			+	+
PEEK	Polyetheretherketone	Victrex®PEEK™	+	+			+	+	+	+			+	+					+	+	+		+	+
PEEK	Polyetheretherketone	Invibio®PEEK-Classix™	+	+			+	+	+	+			+	+	+	+			+	+	+		+	+
PEEK	Polyetheretherketone	Invibio®PEEK-Optima™	+	+			+	+	+	+			+	+	+	+			+	+	+		+	+
PEEK	Polyetheretherketone	KETRON®PEEK	+	+			+	+	+	+			+	+					+	+	+		+	+
PEEK	Polyetheretherketone	KETRON®PEEK LSG	+	+			+	+	+	+			+	+	+	+			+	+	+		+	+
PEEK	Polyetheretherketone	KETRON®PEEK-Classix™ LSG	+	+			+	+	+	+			+	+	+	+			+	+	+		+	+
PEEK	Polyetheretherketone	KetaSpire®PEEK	+	+			+	+	+	+			+	+	+	+			+	+	+		+	+
PEEK	Polyetheretherketone	Zeniva®PEEK	+	+			+	+	+	+			+	+	+	+			+	+	+		+	+
PMP	Polymethylpentene	TPX®		+		+						+		+					+				+	