FAST RADIUS

Chemically compatible overmolding materials

SOFTER MATERIALS → HARDER MATERIALS

	Silicon (SI)	Polyurethane Elastomer (PU)	Thermoplastic Polyurethane (TPU)	Thermoplastic Vulcanizates (TPV)	Thermoplastic Elastomer (TPE)	Low Density Polyethylene (LDPE)	High Density Polyethylene (HDPE)	Polypropylene (PP)	Polysulfone (PSU)	Polyvinyl Chloride (PVC)	Polyetheretherketone (PEEK)	Acrylonitrile Butadiene Styrene (ABS)	Polystyrene (PS)	Polyoxymethylene (POM, Acetal, Delrin, Celcon)	Polyamide (PA6, PA11, PA12, PA66, Nylon)	Polybutylene Terephthalate (PBT)	Polycarbonate Terephthalate (PET, Polyester)	Polyetherimide (PEI)	Polymethyl Methacrylate (PMMA, Acrylic)	Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS)	Polycarbonate (PC)	Metals (AL, ST, SS)
SOFTER MATERIALS																						
Silicon (SI)	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✓	✗	✓
Polyurethane Elastomer (PU)	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Thermoplastic Polyurethane (TPU)	✓	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✓	✓	✗	✓	✓	✓	✗	✓	✓	✓	✓
Thermoplastic Vulcanizates (TPV)	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Thermoplastic Elastomer (TPE)	✗	✗	✓	✗	✓	✓	✓	✓	✗	✗	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓
Low Density Polyethylene (LDPE)	✗	✗	✓	✗	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
High Density Polyethylene (HDPE)	✗	✗	✓	✗	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Polypropylene (PP)	✗	✗	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Polysulfone (PSU)	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Polyvinyl Chloride (PVC)	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Polyetheretherketone (PEEK)	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓
Acrylonitrile Butadiene Styrene (ABS)	✗	✗	✓	✗	✓	✗	✗	✗	✗	✓	✗	✓	✓	✗	✓	✗	✗	✗	✓	✓	✓	✓
Polystyrene (PS)	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✓	✗	✓
Polyoxymethylene (POM, Acetal, Delrin, Celcon)	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✓
Polyamide (PA6, PA11, PA12, PA66, Nylon)	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✓	✗	✗	✗	✗	✓	✗	✓
Polybutylene Terephthalate (PBT)	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✓	✓	✓	✗	✓	✓	✓
Polycarbonate Terephthalate (PET, Polyester)	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓
Polyetherimide (PEI)	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✓	✓
Polymethyl Methacrylate (PMMA, Acrylic)	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	✓	✗	✗	✓
Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS)	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗	✓	✓	✗	✗	✗	✓	✓	✓
Polycarbonate (PC)	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	✓	✓	✓	✗	✓	✓	✓
Metals (AL, ST, SS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗

HARDER MATERIALS