Prototyping properties of Plastics

APT Mold
Amazing Prototype and Tooling

ABS
*Good for structural applications
*High impact strength
*Bonds well
*Available in sheets and rods

Polycarbonate(Lexan ®)
*High impact strength
*High tensile strength
*Transparent in thickness up to 1/2”
*Available in colors
*Available in sheets, rods, tubes

Polymethyl methacrylate(Plexiglas™)
*Excellent optical clarity
*Good impact strength and durability

Acylic
*Transparent applications
*Fairly brittle
*Useful in sheets

Nylon
*Low coefficient of friction
*High strength
*Good for medical and food-processing applications
*Available in sheets, bars, rods, and tubes

Delrin
*Machines well
*Durable, excellent toughness
*Resists many solvents
*Does not bond well
*Available in sheets, bars, rods, and strips

Teflon™
*Low coefficient of friction
*High impact resistance
*Good for medical and food-processing applications
*Available in sheets and rods

Prototyping properties of Plastics

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Ultra high molecular weight polyethylene(UHMW)

*Low coefficient of friction

* “Poor person’s Teflon™”

*Available in sheets and rods

Polycarbonate blend ABS

*High-impact strength even at low temperature,
working temperature：-40° C~120° C

*With good strength, high-impact strength,
good dimension stable

*Application: Prototypes, Mechanical part, Automotive, Electronics products

*Available in sheets