



## Resins and Application Recommendations

Resin	Applications
PA-Polyamide (Nylon)	<ul style="list-style-type: none"> <li>• zip fastener teeth, gears, wheels and fan blades</li> <li>• petrol and hydraulic hose, powder coatings for metals</li> <li>• power tool housings</li> <li>• sterilizable medical components and sight glasses</li> </ul>
PS-Polystyrene	<ul style="list-style-type: none"> <li>• disposable laboratory products</li> <li>• consumer and institutional products</li> <li>• electrical/electronic uses</li> <li>• building/ construction</li> </ul>
PP-Polypropylene	<ul style="list-style-type: none"> <li>• packaging</li> <li>• automotive</li> <li>• appliance</li> <li>• carpeting markets</li> </ul>
TPE-Thermoplastic Elastomer	<ul style="list-style-type: none"> <li>• wire cables</li> <li>• power and hand tool grips</li> <li>• pen grips</li> <li>• airbag covers</li> <li>• several small caps and plugs on filtration</li> <li>• ultracentrifuge ware products</li> </ul>
HTN-High Temperature Nylon	<ul style="list-style-type: none"> <li>• connectors and fittings used in distribution transformers</li> <li>• coil forms</li> <li>• encapsulated solenoids</li> <li>• lamp reflectors</li> <li>• stack insulators</li> <li>• fuse holders</li> <li>• brackets</li> <li>• under-the-hood automotive applications</li> </ul>
TPU-Polyurethane	<ul style="list-style-type: none"> <li>• wheels for In line skates</li> <li>• industrial seals</li> <li>• furniture</li> <li>• automobile sets</li> <li>• tennis grips</li> <li>• surf boards</li> </ul>
Acetals	<ul style="list-style-type: none"> <li>• bushings, rollers, wear strips</li> <li>• cams, gears and exterior car door handles</li> <li>• electric kettles, wash basins and shower heads, as well as snap fit components and toys</li> </ul>
ABS-Acrylonitrile Butadiene Styrene	<ul style="list-style-type: none"> <li>• toys</li> <li>• office equipment</li> <li>• automotive applications</li> <li>• kitchenware</li> <li>• cosmetics</li> </ul>
PBT-Polybutylthalate (Polyester)	<ul style="list-style-type: none"> <li>• computer keyboards</li> <li>• appliances</li> <li>• fluid handling systems</li> <li>• automotive applications</li> <li>• electrical connectors</li> <li>• industrial systems and controls</li> </ul>

PC-Polycarbonate	<ul style="list-style-type: none"> <li>• industrial equipment housings</li> <li>• appliances</li> <li>• compact discs and DVDs</li> <li>• protective coverings for vehicle headlight lamps</li> </ul>
PPA-Polyphthalamide (Amodel)	<ul style="list-style-type: none"> <li>• air induction</li> <li>• electrical/electronic</li> <li>• fuel systems</li> <li>• heating/cooling</li> <li>• composites/additives</li> <li>• cookware</li> <li>• personal care</li> <li>• small appliances</li> <li>• lawn and garden</li> <li>• power tools</li> <li>• electrical contactors/switches</li> <li>• motor components</li> <li>• LED's</li> <li>• medical devices</li> <li>• faucet components</li> <li>• bearing retainers</li> </ul>
PET-Polyethylene Terephthalate (Rynite)	<ul style="list-style-type: none"> <li>• packaging</li> <li>• automotive</li> <li>• electrical</li> <li>• food /beverage</li> <li>• other liquid containers</li> </ul>
PPEI-Polytherimide (Ultem)	<ul style="list-style-type: none"> <li>• medical devices</li> <li>• insulators</li> <li>• surgical probes</li> <li>• high voltage clamps</li> </ul>
PC/ABS Blend (Makroblend)	<ul style="list-style-type: none"> <li>• automotive</li> <li>• electronics</li> <li>• telecommunications</li> </ul>
PPS-Polyphenylene Sulfide (Ryton)	<ul style="list-style-type: none"> <li>• chemically resistant coatings</li> <li>• chemical pumps</li> <li>• electrical components</li> </ul>
PPO-Polyphenylene Oxide (Noryl)	<ul style="list-style-type: none"> <li>• electrical/electronic uses</li> <li>• business machine parts</li> <li>• appliances</li> <li>• automotive parts</li> </ul>
Acrylic	<ul style="list-style-type: none"> <li>• lighting fixtures</li> <li>• glazing</li> <li>• automotive parts</li> </ul>
PE-Polyethylenes	<ul style="list-style-type: none"> <li>• packaging</li> <li>• house wares</li> <li>• toys</li> <li>• communications equipment</li> </ul>
TPO-Thermoplastic Polyolefin	<ul style="list-style-type: none"> <li>• bearings</li> <li>• gears</li> <li>• artificial joint implants</li> <li>• chopping boards</li> </ul>
TPV – Thermoplastic Vulcanite (Alcryn)	<ul style="list-style-type: none"> <li>• automotive</li> <li>• tools and appliances</li> <li>• architectural</li> <li>• home and garden</li> <li>• wire and cable</li> <li>• consumer products</li> <li>• industrial products</li> </ul>

