

Primary Application	Suggested Grade	Resin Type	Key Property for This Use
Film			
Anti-block	Nylene NX3055i	PA6	Anti-block additive
Anti-Static	Nylene NX4702	PA6	Anti-static additive
Blown Film	Nylene CX3395	PA6,6/9	Excellent elongation, good shrink
Blown Film	Nylene 609	PA6	Tough film, good melt strength
Blown Film	Nylene NX3055i	PA6	High speed casting
Blown Film	Nylene 826	PA6,6/9	Good shrink
Blown Film	Nylene NX3411	PA6	Good melt stability
Cast Film (anti-static)	Nylene NX4702	PA6	Anti static additive
Co-extrusion	Nylene 615	PA6	Cast or blown film
Co-extrusion	Nylene 615i	PA6	Cast or blown film
Co-extrusion	Nylene CX3396	PA6,6/9	Excellent elongation
Deep Draw	Nylene 826	PA6,6/9	Excellent elongation
Deep Draw	Nylene CX3395	PA6	Excellent elongation
Gel Free	Nylene 826	PA6,6/9	Low residual monomer
Kosher	Nylene 615SA	PA6	Only Kosher nylon, avail. in other grades
Laminating	Nylene NX2011	PA6	Coating paper, foil, or plastic
Oven cooking bags	Nylene NX3411	PA6	Good bubble stability
Extrusion			
Cable Covering	Nylene NX6200	PA6	Tough, scuff resistant
Compounding	Nylene NX3024	PA6	Top grade compounding, excellent color
Compounding	Nylene NX1731	PA6	Lower cost prime compounding grade
Concentrate	Nylene 400	PA6	Excellent clarity, lower viscosity
Convoluted Tubing	Nylene 2401 HS	PA6,6/6	Low cost, heat resistance
Convoluted Tubing	Nylene 2407 HS	PA6	Higher flexibility, heat resistance
Convoluted Tubing	Nylene 323	PA6	Prime high flexibility
Convoluted Tubing	Nylene 2403 HS	PA6	PCR
Extrusion Coating	Nylene 609	PA6	Good melt strength
Fiber	Nylene NX3024	PA6	Easy processing
Fiber	Nylene 615	PA6	Good strength and drawdown
Fiber	Nylene NX4780	PA6	monofilament
Fishing Line	Nylene NX5703	PA6	Good strength and flexibility
Fishing Line	Nylene NX4780	PA6	Better strength and flexibility
Monofilament	Nylene NX5703	PA6	Good strength and flexibility
Monofilament	Nylene CX3482	PA6	Good flexibility
Monofilament	Nylene NX4780	PA6	Better strength and flexibility
Netting	Nylene NX5703	PA6	good strength and flexibility
Non-woven Fabric	Nylene 400	PA6	Tight viscosity range, easy flow
Non-woven Fabric	Nylene 401D	PA6	Easy flow, slower set-up
Pipe	Nylene 607	PA6	Ultra high viscosity (800 RV)
Pipe	Nylene 609	PA6	Good shape retention
Profile extrusion	Nylene 609	PA6	Good shape retention
Profile extrusion	Nylene NX4301A	PA6	UV stable black

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Extrusion (continued)			
Profile extrusion	Nylene PX1719	PA6	High flexibility
Profile extrusion	Nylene 607	PA6	Complex shapes, good shape retention
Rod Stock	Nylene 607	PA6	Ultra high viscosity (800 RV)
Rod Stock	Nylene 609	PA6	Good shape retention
Rod Stock	Nylene 600	PA6	Higher flow, fast process
Slab	Nylene 600	PA6	Higher flow, fast process
Slab	Nylene 607	PA6	Ultra high viscosity (800 RV)
Tubing	Nylene 600	PA6	Low viscosity
Tubing	Nylene 702	PA6	
Tubing	Nylene 609	PA6	Good shape retention
Tubing	Nylene 734	PA6	High flexibility
Tubing	Nylene PX1719	PA6	Most flexible
Thread	Nylene NX3024	PA6	Easy process, good color
Wire Insulation	Nylene NX6200	PA6	Tough, scuff resistant

Rotational Molding

	Nylene 474	PA6	
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Injection Molding

General Applications

Injection Molding	Nylene 401	PA6	Low RV, internally lubed
Bracket	Nylene 5133	PA6/6	High stiffness
Bracket	Nylene 5143	PA6/6	Higher stiffness
Bracket	Nylene 5233	PA6	High stiffness, better surface
Bracket	Nylene 7115	PA6	Low warp, better surface
Bracket	Nylene 7215	PA6/6	Low warp
Bracket	Norpex AX30GF	PPO	Low warp, higher stiffness
Bushing	Nylene 132	PA6/6	Low wear
Bushing	Nylene 401	PA6	Lower wear
Bushing	Nylene 4120	PA6/6	Moly filled, lower wear, high flexibility
Bushing	Nylene 4121	PA6/6	Silicone filled, lower wear, high flexibility
Bushing	Duratel MF9	acetal	Low wear
Bushing	Nylene 5133 MF	PA6/6	High stiffness, moly filled, low wear
Bushing	Nylene 7139	PA6/6	Nylon 6/6 moly filled, low wear
Clips	Nylene 401	PA6	Some flexibility, good creep resistance
Clips	Nylene 724	PA6	More flexible
Clips	Nylene 734	PA6	Most flexible
Clips	Nylene 311	PA6/6	More flexible
Clips	Nylene 4114	PA6/6	Most flexible
Encapsulation	Nylene 401	PA6	High flow
Encapsulation	Nylene 401D	PA6	Higher flow
Fasteners	Nylene 401	PA6	Some flexibility, good creep resistance

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Injection Molding			
General Applications (continued)			
Fasteners	Nylene 724	PA6	More flexible
Fasteners	Nylene 734	PA6	Most flexible
Fasteners	Nylene 311	PA6/6	More flexible
Fasteners	Nylene 4114	PA6/6	Most flexible
FDA molding	Nylene 401F	PA6	FDA compliant
Housing	Nylene 6140	PA6/6	Low warp, high stiffness
Housing	Norpex AX190	PPO	Low warp
Housing	Naxel PC41	PC	Low warp, transparent available
Injection Molding			
Automotive Applications			
Door Handle	Nylene 7115	PA6	Low warp, good surface
Door Handle	Nylene 5233	PA6	High stiffness, good surface
Door Handle	Nylene 5213	PA6	Some stiffness, better surface
Electrical Connector	Nylene 434	PA6	Flexible, can fill thin sections
Electrical Connector	Nylene 5133	PA6/6	High stiffness, high heat
Electrical Connector	Nylene 5113	PA6/6	Some stiffness, high heat
Electrical Connector	Norpex AX235	PPO	Some stiffness, low warp
Electrical Connector	Vexel B12U	PBT	Can fill thin sections, low moisture
Electrical Connector	Vexel B12GF30	PBT	High stiffness, low moisture
Engine Cover	Nylene 6240	PA6	Low warp, heat and chemical resistance
Engine Cover	Nylene 401 metallic GY	PA6	Heat & chem. resistance, metallic color
Engine Cover	Nylene 4114	PA6/6	Tough, heat & chemical resistance
Fan Blades	Nylene 7115	PA6	Low warp, high strength
Fan Blades	Nylene 6140	PA6/6	Lower warp
Fuel Filter Housing	Nylene 401C	PA6	Contact clarity, chemical resistance
Fuel Filter Housing	Nylene NX3451	PA6,6/9	High clarity, chemical resistance
Fuel Filter Housing	Nylene 401D	PA6	Good clarity
Headlamp Bracket	Vexel E20GF30	PET	Very high stiffness
Headlamp Bracket	Vexel E20MG35	PET	Very high stiffness, low warp
Headlamp Bracket	Vexel B12GF30	PBT	High stiffness
Headlamp Bracket	Naxel PC506	PC	Very high stiffness, low warp
Headrest Guide	Nylene 4114	PA6/6	High flexibility
Headrest Guide	Duratel MF9	acetal	Low wear
Intake Manifold	Nylene 5133	PA6/6	High heat, chemical resistance
Intake Manifold	Nylene 5233	PA6	Easier molding, chemical resistance
Light Reflector	Nylene 6240	PA6	Low warp, platable
Light Reflector	Naxel PC35CV	PC	Low warp, high heat
Multi-function Switch	Nylene 7115	PA6	Stiff, good surface, good feel
Multi-Function Switch	Nylene 401	PA6	Tougher, more flexible, good feel
Power Steering Reservoir	Nylene NX4728 HS WT	PA6	Translucent white, easy mold

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Injection Molding			
Automotive Applications			
Power Steering Reservoir	Nylene NX4747	PA6,6/9	Clearer, high stiffness
Power Steering Reservoir	Nylene NX3451	PA6,6/9	Unfilled, high clarity
Roof Rack	Nylene 7115 UV	PA6	Low warp, high strength, good surface
Roof Rack	Nylene 4114 UV	PA6/6	High impact resistance
Roof Rack	Nylene 5233	PA6	Highest strength, good surface
Seat Adjuster Levers	Nylene 5213	PA6	Higher stiffness, good surface
Seat Adjuster Levers	Nylene 401	PA6	Good surface, easy mold
Seat Adjuster Levers	Nylene 4114-14	PA6/6	Higher stiffness, good impact
Seat Adjuster Levers	Nylene 5233	PA6	Highest stiffness, good surface
Seat Adjuster Levers	Nylene 7228	PA6	Easy molding, low warp, good surface
Seat Belt Components	Nylene 4114 UV	PA6/6	Highest impact
Seat Belt Components	Nylene 421	PA6	High impact, stiffer
Seat Belt Components	Nylene 401	PA6	Some impact, more stiff
Seat Belt Components	Nylene 206	PA6	Faster cycle, stiffer
Seat Pan	Nylene 4114-33	PA6/6	Tough with stiffness
Seat Pan	Nylene 4214-33	PA6	Slightly higher toughness with stiffness
Wheel Cover	Nylene 6240	PA6	Low warp, high heat, good surface
Wheel Cover	Norpex AX265	PPO	Lower warp, high heat, better surface
Wheel Cover	Norpex AX20 MR	PPO	Higher stiffness

Injection Molding			
Electrical Applications			
Coil Bobbins	Nylene 5133	PA6/6	High heat, high stiffness
Coil Bobbins	Vexel B12GF30	PBT	High heat, high stiffness
Coil Bobbins	Vexel E20GF30	PET	High heat, higher stiffness
Electrical Connector	Nylene 434	PA6	Flexible, can fill thin sections
Electrical Connector	Nylene 5133	PA6/6	High stiffness, high heat
Electrical Connector	Nylene 5113	PA6/6	Some stiffness, high heat
Electrical Connector	Norpex AX235	PPO	Some stiffness, low warp
Electrical Connector	Vexel B12U	PBT	Can fill thin sections, low moisture
Electrical Connector	Vexel B12GF30	PBT	High stiffness, low moisture
Electrical Housing	Norpex AX190	PPO	Easy molding, low warp
Electrical Housing	Norpex AX220 Hi Flow	PPO	Easy molding, higher toughness
Electrical Housing	Naxel PC41C	PC	Low warp, higher toughness, high heat
Encapsulation	Nylene 132	PA6/6	High flow
Encapsulation	Nylene 401D	PA6	Higher flow
Wall Plug	Nylene 451	PA6	Easy mold, tough, UL listed
Wall Plug Cover	Nylene 451	PA6	Easy mold, tough, UL listed
Wire Tie	Nylene NX4784	PA6	High flow, fast set-up, easy mold release

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Injection Molding			
Industrial Applications			
Conveyor Lever	Nylene 4114	PA6/6	High toughness, wear resistant
Conveyor Roller	Nylene 5133 MF	PA6/6	High stiffness, low wear, moly filled
Conveyor Roller	Duratel MF9	acetal	Low wear
Material Handling	Norpex AX225 HI	PPO	High impact, high flow, low warp
Material Handling	Norpex AX200 HI Flow	PPO	Higher flow, low warp
Oil Fitting	Nylene 4114-14	PA6/6	Some stiffness, some impact resistance
Oil Fitting	Nylene 5133	PA6/6	High stiffness
Parts Tray	Norpex 190	PPO	Easy molding, low warp
Pulley	Nylene 5133	PA6/6	High strength and stiffness
Pulley	Nylene 5133 MS	PA6/6	High strength with low wear
Pulley	Nylene 6140	PA6/6	Low warp, high stiffness
Water Meter Housing	Norpex 190	PPO	Low warp, easy mold
Water Pump	Nylene 9533	PA6/12	High stiffness, low moisture

Injection Molding			
Tool & Appliance Applications			
Water Pump	Norpex AX30GF	PPO	High stiffness
Water Pump	Nylene 9110 G43	PA6/10	Higher stiffness, low moisture
Cooling Fans	Norpex AX190	PPO	Low warp, low cost
Cooling Fans	Naxel PC502	PC	Higher stiffness, low warp
Lawn Mower Housing	Naxalloy	PC/ABS PC/PBT	Low warp, good surface, high toughness
Leaf Blower Fan	Nylene 6140	PA6/6	Low warp, high heat, high stiffness
Power Tool Housing	Nylene 5233	PA6	Highest stiffness, good surface
Power Tool Housing	Nylene 5213	PA6	High stiffness, good surface
Power Tool Housing	Nylene 7115	PA6	Low warp, high stiffness, good surface
Power Tool Housing	Nylene 132	PA6/6	Smaller parts, more flexible
Stove Handles	Vexel B12U	PBT	Good flow, high heat
Stove Handles	Nylene 5213	PA6	Stiffer, good feel
Stove Knobs	Nylene 404	PA6	Good appearance, nice feel
Stove Knobs	Nylene 132	PA66	Good appearance, nice feel

Injection Molding			
Furniture & Household Applications			
Appliance footing	Nylene 5133	PA6/6	Stiff & strong
Assist Rails	Nylene 401	PA6	Easy mold, great surface
Assist Rails	Nylene 5233	PA6	Higher stiffness, good surface
Caster Wheel	Nylene 311	PA6/6	Tough & scuff resistant
Caster Wheel	Nylene 724	PA6	Tough & scuff resistant
Electrical Plug	Nylene 451		Easy mold, tough, UL listed
Office Chair Base	Nylene 5235 SP NF	PA6	High stiffness, low cost, good surface

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Injection Molding			
Furniture & Household Applications (continued)			
Office Chair Base	Nylene NX4578	PA6	High flow for overmolding
Seat Adjuster Levers	Nylene 5213	PA6	Some stiffness, good surface
Seat Adjuster Levers	Nylene 401	PA6	Easy molding, great surface
Seat Adjuster Levers	Nylene 4114-14	PA6/6	Some stiffness, some impact resistance
Seat Adjuster Levers	Nylene 5233	PA6	Highest stiffness, good surface
Wall Plug Cover	Nylene 451	PA6	Easy mold, tough, UL listed
Window Blind	Nylene 132	PA6/6	Easy mold, low wear
Window Blind	Nylene 401	PA6	Easy mold, low wear
Window Hardware	Nylene NX1440	PA6	Fast cycle
Window Hardware	Nylene 411	PA6/6	Low temperature impact
Wire Trough	Norpex 190	PPO	Stiff, easy to extrude

Injection Molding			
Sports & Leisure Applications			
Backpack Frame	Nylene 5233	PA6	Stiff & tough
Backpack Frame	Nylene 5213	PA6	Stiff & tough
Flashlight Housing	Naxel PC41	PC	High impact resistance, colorable
Flashlight Housing	Naxalloy	PC/ABS	Tough, lower cost than PC
Golf Cart Handles	Nylene 4114-33	PA6/6	Stiff and tough
Hockey Helmet	Nylene 4114-33	PA6	High stiffness, high toughness
In-Line Skate	Nylene 5233	PA6	High stiffness, good surface
In-Line Skate	Nylene 4114-33	PA6/6	High stiffness, more toughness
Knife Handle	Nylene 401	PA6	Excellent surface, good feel
Knife Handle	Nylene 5213	PA6	Higher stiffness, good surface
Lacrosse Stick	Nylene 4114	PA6/6	Very high toughness
Paddle Blade	Naxel PC504	PC	Stiff, high toughness
Rifle Stock	Nylene 5233	PA6	Highest stiffness, good surface
Rifle Stock	Nylene 5213	PA6	Some stiffness, good surface
Snowmobile Hood	Naxaloy	PC/ABS	High toughness and low warp
Strap Clip	Nylene 132	PA6/6	Tough and strong
Strap Clip	Nylene 401	PA6	Tough and strong
Water Bottle Cage	Nylene 5213	PA6	Good springback
Water Bottle Cage	Nylene 4114-14	PA6/6	Stiff and tough

Wire and Cable Coating			
Wire and Cable	BX3WQ662	PA6	Heat Stabilized, lubricated, Higher monomer content
Wire and Cable	BX3WQ662X	PA6	Heat Stabilized, lubricated, Methanol Extractables
Wire and Cable	BX3WQ662X HRV	PA6	Heat Stabilized, lubricated, Methanol Extractables

Compounding			
Compounding	Nylene 401	PA6	Low RV, Internally lubed
Compounding	BS640A	PA6	General Grade, mid RV, unlubricated
Compounding	NCHF75	PA6	General Grade, slightly higher RV, unlubricated
Compounding	NCHF80	PA6	General Grade, slightly higher RV, unlubricated
Compounding	NCHF85	PA6	General Grade, slightly higher RV, unlubricated

Spinning Grade Polymer			
Carpet Fiber	BS700A	PA6	Medium Dye
Carpet Fiber	BS700RA	PA6	Medium Dye, 50% post industrial recycled content
Carpet Fiber	BS700RC	PA6	Medium Dye, 50% post consumer recycled content
Carpet Fiber	BS700D	PA6	Deep Dye (high amine end group)
Carpet Fiber	BS700DR	PA6	Deep Dye, 35% post industrial recycled content
Carpet Fiber	BS600C	PA6	Cationic Dye (low amine end group)
Carpet Fiber	BS600CR	PA6	Cationic Dye, 35% post industrial recycled content