

HIGH PERFORMANCE MATERIALS

		PROPERTIES	TYPICAL APPLICATIONS
NORYL:	Modified phenylene oxide Sheet: Thickness: 1/16" — 1" Size: 48" x 96", 24" x 48" Rod: Diameter: 1/4" — 6"	<ul style="list-style-type: none"> • Stable under load under wide temperature range. • Low thermal conductivity and expansion. • High impact strength. • Resists creep and deformation under load. • Low water absorption. • Excellent electrical properties. • High tensile strength. 	<ul style="list-style-type: none"> • Pump components. • Gauges and instrument parts. • Surgical instruments. • Terminal boards. • Plated and vacuum metallized parts. • Mist and scrubber eliminator blades.
POLY-SULFONE:	Sheet: Thickness: 1/32" — 4" Size: 48" x 96", 24" x 48", 12" x 48" Rod: Diameter: 3/16" — 8" Film: Thickness 0.003" — 0.020" Width: 24" — 26"	<ul style="list-style-type: none"> • Exceptional heat and steam resistance. • Excellent dimensional stability. • Toughness, Rigidity. • Chemical and Radiation resistance. • FDA compliant. 	<ul style="list-style-type: none"> • Medical tubing, trays, handles and trials. • Food & beverage contact parts. • Dairy equipment. • Aerospace components. • Circuit boards & connectors.
PCTFE:	Chlorotrifluoroethylene Sheet: Thickness: 0.005" - 1-1/4" Size: 12" x 12", 14" x 14", 15" x 15" Rod: Diameter: 1/8" — 6"	<ul style="list-style-type: none"> • Excellent chemical resistance. • Dimensional stability over a wide temperature range (-240°C to +200°C). • Gas barrier properties. • Excellent electrical properties. • High optical transparency. 	<ul style="list-style-type: none"> • Liquid oxygen handling. • Cryogenic applications. • Chemical processing equipment. • Gaskets. • Seals. • Electrical components.
FEP:	Fluorinated ethylene propylene Sheet: Thickness: 1/32" — 2" Size: 12" x 12", 14" x 14", 15" x 15" Rod: Diameter: 1/8" - 6" Film: Thickness: 0.0005" — 0.020" Width: 1/2" — 60"	<ul style="list-style-type: none"> • Weldable. • Chemically inert. • Low dielectric constant. • Good weatherability. • Useful from cryogenic temperatures up to 200°C. • Relatively soft with lower tensile strength, wear resistance and creep resistance than other engineering plastics. 	<ul style="list-style-type: none"> • Roll covers. • Pipe linings. • Wire and cable applications.
PFA:	Perfluoroalkoxy Sheet: Thickness: 0.002" — 1/2" Size: 12" x 12" Rod: Diameter: 1/8" — 1 3/4" Film: Thickness: 0.0005" — 0.125" Width: 1/2" — 48"	<ul style="list-style-type: none"> • Similar to TFE and FEP. • Better mechanical properties than FEP above 150°C. • Can be used to 260°C. • About equal to TFE in chemical resistance. 	<ul style="list-style-type: none"> • Roll covers. • Pipe linings. • Wire and cable applications.
HALAR:	Ethylene - Chlorotrifluoroethylene Sheet: Thickness: 1/16" — 4" Size: 48" x 96", 12" x 48" Rod: Diameter: 1/8" — 5" Film: Thickness: 0.0005" — 0.125" Width: 24" — 26"	<ul style="list-style-type: none"> • Excellent chemical resistance. • Extremely low permeability to liquids, gases and vapours. • Best abrasion resistance of all fluoropolymers. • Useful properties from cryogenic temperatures to 165°C. • Ultra pure, non contaminating. 	<ul style="list-style-type: none"> • Valves. • Pumps. • Tank and tank linings. • Cables. • Chemical processing.
TEFZEL:	Ethylene-tetrafluoroethylene Sheet: Thickness: 1/16" — 3/4" Size: 12" x 12" Rod: Diameter: 1/8" — 4" Film: Thickness: 0.0005" — 0.125" Width: 1/2" — 60"	<ul style="list-style-type: none"> • High impact resistance. • Useful mechanical properties from cryogenic temperatures to 180°C. • Excellent electrical properties. • Melts and decomposes upon exposure to flame. • Excellent chemical resistance and weatherability. 	<ul style="list-style-type: none"> • Pump components. • Chemical process equipment. • Electrical components.
CROSS LINKED POLY-STRYENE	Sheet: Thickness: 1/32" — 6" Size: 24" x 48", 36" x 36" Rod: Diameter: 1/16" — 8"	<ul style="list-style-type: none"> • Excellent electrical properties including low loss and stable dielectric constant. • High resistance to cold flow. • Close machining tolerances possible. • Rigidity and dimensional stability. • Excellent radiation resistance. 	<ul style="list-style-type: none"> • Microwave lenses and insulators. • Aerospace components. • Electronic equipment.
POLY-URETHANE:	Castable urethane elastomer Sheet: Thickness: 1/32" — 4" Rod: Diameter 1/4" — 6" Tubular Bar: Diameter 1/4" I.D. — 25" O.D. Hardness ranges from 10 — 15 shore "A" which is softer than a gum eraser to 80 shore "D" which is harder than a bowling ball.	<ul style="list-style-type: none"> • Outstanding abrasion resistance. • Great load carrying characteristics. • Flexibility even at low temperatures. • Resistant to degradation by oxygen and ozone. • Superior sound dampening properties. • Useful mechanical properties are maintained from -60°C to 90°C. • Very high impact strength. • Very low water absorption. • Bondable to other materials. 	<ul style="list-style-type: none"> • Chute liners. • Agitator blades. • Pulleys. • Conveyor rollers. • Forming rolls. • Graphic Arts rollers. • Wear strips. • Car wash rollers. • Gears, sprockets. • Wheels.