

MATERIAL GUIDE

High Performance Materials for Demanding Applications



Premium Quality
Reliable & Consistent
Performance



**High Temperature
Resistance**
Up to 1600°C+



Precision Converting
Custom Solutions
Available



Global Supply
Fast Delivery &
Technical Support



01 HIGH PERFORMANCE FILMS



PEN High Temp Insulation Film

Excellent dielectric strength,
high temperature resistance
and dimensional stability.



PPS Insulation Film

Outstanding mechanical
strength, chemical resistance
and thermal stability.



PI (Kapton) Film

High temperature resistant
insulation film for electrical
electronic applications.



PTFE Film & Sheet

Excellent chemical resistance,
low friction and high
temperature performance.



Release Films

Double-sided matte, TPX
release film and three-in-one
release film solutions.



Functional Coated Films

Special surface treatment
for insulation, protection
and release applications.

02 THERMAL & INSULATION MATERIALS



Ceramic Fiber Board

Low thermal conductivity,
high temperature resistance
up to 1260°C / 1400°C.



Ceramic Fiber Paper

Flexible, lightweight and
excellent thermal insulation
up to 1280°C.



Ceramic Fiber Cotton

Low thermal conductivity
and excellent heat retention
up to 1260°C.



Rock Wool & Aluminum Silicate Board

Fire resistant, sound insulation
and heat preservation.



Mica Insulation Sheet

Excellent dielectric strength
and high temperature
resistance up to 1000°C.



Aerogel Insulation Pad

Ultra-low thermal conductivity,
ultra-thin and outstanding
thermal barrier.

03 ENGINEERING PLASTICS



PEEK

High strength, wear
resistance and chemical
resistance.



PPS

High temperature resistance,
flame retardant and
excellent dimensional
stability.



PEI (ULTEM)

High strength and stiffness
with excellent heat
resistance.



PTFE

Excellent chemical resistance,
low friction and non-stick
performance.



POM (Acetal)

High stiffness, low friction
and excellent wear
resistance.



PVC

Good chemical resistance,
electrical insulation and
cost effective.

04 INDUSTRIAL ACCESSORIES & COMPONENTS



Cushion Pad

High temp lamination cushion
pads for PCB/CCL/FPC
applications.



Separator Plate

SUS630, 4120, 4310, DILLIDUR
high precision steel plates
for lamination press.



Tooling Plate

Custom tooling & carrier
plates for multilayer
lamination.



Die Cut Parts

Custom die cutting for
insulation, protection and
sealing applications.



High Temp Tape

Polyimide, glass cloth, PTFE
and specialty tapes for
high temp applications.



Sealing Rope

Ceramic fiber rope and
seal solutions for high
temperature sealing.

MATERIAL SELECTION GUIDE

Electrical Insulation	PEN Film, PPS Film, PI Film, Mica Sheet, Ceramic Fiber
Thermal Insulation	Aerogel Pad, Ceramic Fiber Board/Paper/Cotton, Rock Wool Board, Mica Sheet
High Temperature Resistance	Ceramic Fiber (up to 1260°C/1400°C), Mica (1000°C), PI Film (up to 400°C), PTFE (up to 260°C)
Chemical Resistance	PTFE, PEEK, PPS, PVC, Ceramic Fiber

TYPICAL APPLICATIONS

PCB & FPC Lamination	Lithium Battery & Energy Storage	EV & Automotive Electronics	Semiconductor Manufacturing
Solar PV Module	Industrial Furnace & Heat Treatment	Aerospace & Defense	General Industrial Equipment



Reliable Quality
Strict quality control and
testing standards.



Custom Solutions
Material customization and
precision converting.



Fast Delivery
Global supply chain and
efficient logistics.



Technical Support
Professional team and
full-service support.