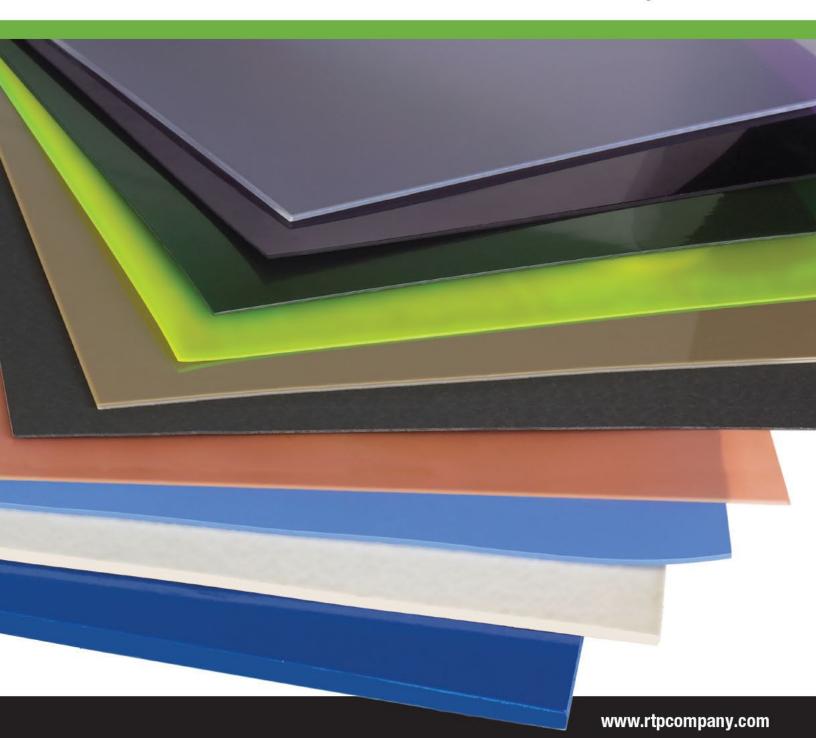




Engineered Sheet Products

Custom Extruded Thermplastic Sheet



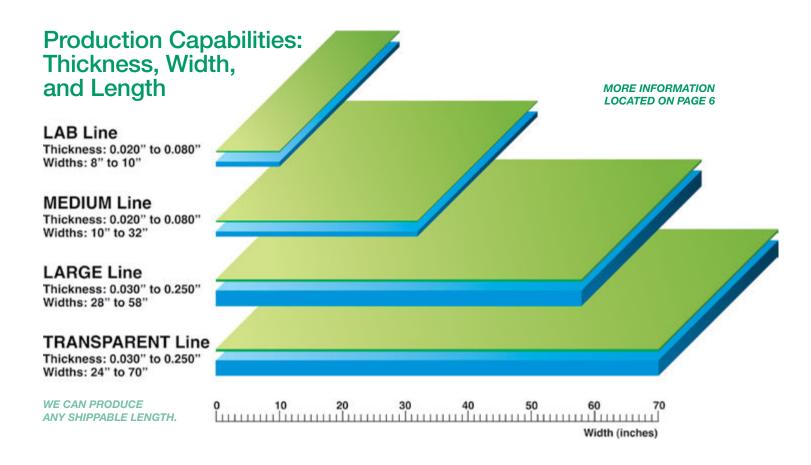


RTP Company is proud to offer Engineered Sheet Products[™] (ESP[™]), your one-stop-shop for custom extruded sheet. Our services and capabilities extend beyond typical sheet extrusion manufacturers, so there is no need to compromise with an off-the-shelf material or sheet size.

We work in many different engineered resin systems and offer a wide range of thermoplastic technologies. Contact us with your material requirements and our engineers will select an extrusion grade compound that is optimized to your specifications and positions your program for success!



Your One-Stop-Shop



Our customers include global manufacturers and OEMs in industries such as: Electrical products, Electronics, Automotive, Medical, Appliances, Industrial, Aerospace, and much more.







AUTOMOTIVE



APPLIANCES





INDUSTRIAL

AEROSPACE



From specific, high-tech compounds to unfilled resins, we work with most thermoplastic resin systems and hundreds of modifiers to provide the right solution for you.

Resin Portfolio

Our compounding expertise and access to a diverse resin portfolio allows us to provide you with top quality thermoplastic sheet.

ESP Series	BASE POLYMER	ABBREVIATION		· /	dant \	
01	Polypropylene	PP	•			0
02E	Amorphous Nylon	PA				
03	Polycarbonate	PC				
04	Polystyrene	PS				
06	Acrylonitrile Butadiene Styrene	ABS				
07	Polyethylene	PE				
08	Acetal	РОМ				
09	Polysulfone	PSU ■				0
14	Polyethersulfone	PES			0	
18	Acrylic	РММА		0		0
21	Polyetherimide	PEI ■		0	0	
22	Polyetheretherketone	PEEK			0	0
25	Polycarbonate/ABS Alloy	PC/ABS		0		
28	Thermoplastic Polyolefin Elastomer	TPE				

Color Solutions

We can color match virtually any hue or chroma; in addition, we can add functional technologies (such as light diffusion or UV protection) or special effects (such as glow-in-the dark, edge glow, speckled, and wood effects). Whether you select from our standard palette or choose a custom formulation, our experienced colorists deliver consistent color, every time.



Conductive Solutions

We have a broad range of Conductive options, from PermaStat® antistatic, conductive carbon black, to EMI/RFI shielding and thermally conductive compounds. Depending on your application needs, we have a solution for you.

Flame Retardant Solutions

Our Flame Retardant compounds include halogen-free and halogenated options that meet flammability performance specifications, allowing you to obtain regulatory compliance such as UL, transportation, building and construction, and global standards.





Structural Solutions

Our Structural solutions provide targeted improvements of mechanical and physical properties to meet application requirements – even in the most challenging environments. Our portfolio spans from cost-sensitive commodities like Polypropylene to the highest performing compounds including PEEK. Structural performance can be predicted and tailored to meet your specific end-use requirements by using appropriate fillers, reinforcements, and additive technologies.

Thermoplastic Elastomer (TPE) Solutions

We provide Thermoplastic Elastomer solutions, ranging from off-the-shelf resins to complex custom compounds. Whether your application requires a soft, tactile feel or tough, durable performance, our TPE products can be formulated to include a variety of other desirable properties.





Wear and Friction Resistant Solutions

Our Wear and Friction Resistant solutions provide optimal performance of mating parts and materials in motion. We can solve many wear and friction issues such as abrasion, noise, vibration, sliding, external lubrication, scratches, marring, or withstanding extreme conditions.



Once a compound has been selected, we'll discuss your sheet sizing requirements. Whether you need thick-gauged sheets for thermoforming, thin-gauged sheets for die-cutting, or anything between, we'll help you optimize a high-yield.

Production Capabilities

ESP has multiple extrusion machines to provide various sheet sizes, including thicknesses from 0.020" to 0.250" and widths from 10" to 70".

	Available Thicknesses	Available Widths	Available Lengths	Available Textures	Minimum Order Quantity
MEDIUM Line	0.020" to 0.080"	10" to 32"	Any shippable length, including rolls	Smooth Matte	660 lbs.
LARGE Line	0.030" to 0.250"	28" to 58"	Any shippable length, including rolls	Smooth Matte Heavy grain	1,320 lbs.
TRANSPARENT Line	0.030" to 0.250"	24" to 70"	Any shippable length, including rolls	• Smooth • Diamond	1,320 lbs.

Proof-of-Concept Capabilities

For proof-of-concept requests, we can provide sample sheets or injection molded plaques, which provide similar properties to the extruded sheet samples.

	Available Thicknesses	Available Widths	Available Lengths	Available Textures	Minimum Order Quantity
LAB Line	0.020" to 0.080"	8" to 10"	Any shippable length, including rolls	Smooth Matte	50 lbs.
TRANSPARENT Line	0.030" 0.060" 0.090" 0.125" 0.156" 0.187" 0.250"	10"	10"	Smooth	N/A
Injection Molding Capabilities	0.040" 0.060" 0.080" 0.090" 0.125" 0.160" 0.250"	6"	Variable (ranges from 5" to 12" depending on thickness)	Smooth Matte	20 lbs.

Sheet Weight Calculation

Length (in.) x Width (in.) x Thickness (in.) x specific gravity / 27.68 = lbs./sheet



Sheet Capabilities

A Closer Look at ESP's Transparent Line

ESP manufactures transparent sheets that are ideal for applications such as commercial lighting and sneeze guards.



Commercial Lighting

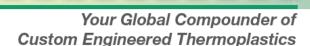
Commercial lighting applications that must withstand harsh outdoor climates benefit from our UL Listed transparent sheet, available in smooth or diamond texture, with optional UV resistance properties.



Sneeze Guards

Our transparent sheet materials are perfect for sneeze guards and barriers used in offices and retail space. These sheets have a smooth texture and are laminated on one or both sides to protect them during transport and cutting processes. UV resistance is also available. We offer competitive lead times and can provide sheets in widths up to 70" in any shippable length.

Don't compromise with an off-the-shelf material or sheet size! We can provide the exact sheet material you need.





RTP COMPANY THERMOPLASTIC TECHNOLOGIES



COLOR

We offer precolored resins, UniColor®, Masterbatches (including Color Conduit), and cube blends for plastic parts ranging from automotive to rocket components and medical devices to toothbrush handles. Our Hueforia color experts provide color selection advice and precise custom color matching services.



CONDUCTIVE

We offer compounds for electrostatic discharge (ESD) protection, thermal management, EMI shielding, or PermaStat® permanent anti-static protection. Available in particulate and all polymeric-based materials, these compounds can be colored as well.



🐼 FLAME RETARDANT

Whether you are developing a new product or need to reformulate due to ever-changing regulations, we can custom engineer a flame retardant material with the exact properties you require.



HIGH TEMPERATURE

We formulate our high temperature compounds precisely to retain their performance properties, provide better dimensional stability, and offer excellent electrical characteristics in continuous-use high temperatures.



LONG GLASS FIBER

As pioneers in developing a proprietary pultrusion process, we've perfected the manufacturing of our Long Glass Fiber (LGF) Compounds. These pellets encapsulate long fibers for superior strength, stiffness and impact resistance, making them ideal for metal replacement.



STRUCTURAL

Our reinforced Structural Compounds are formulated to increase strength and stiffness, and provide resistance to impact, creep, and/or fatigue. These materials can be customized to meet cost and performance targets.



TPE

Our thermoplastic elastomers provide rubber-like performance with the processing benefits of thermoplastic resin. Our portfolio ranges from standard, in-stock resins to custom compounds designed to meet your specifications.



For stiff, lightweight, and impact resistant material, our Thermoplastic Polyolefins are your solution, providing excellent low temperature ductility, as well as UV- and scratch/mar-resistance.



WEAR RESISTANT

Our wear resistant thermoplastic compounds can incorporate internal lubricants to reduce wear and friction, thereby lengthening the service life of your application and reducing your processing costs.



ENGINEERED SHEET

We're your one-stop-shop for thermoplastic sheet. We can offer you a unique material, designed with these technologies and extruded to meet your exact sizing requirements.



FILM - WIMAN

Through our sister company, Wiman Corporation, we can provide you with polymer film in a variety of resins, and customized with additives to provide specific properties.

No information supplied by RTP Company constitutes a warranty regarding product performance or use. Any information regarding performance or use is only offered as a suggestion for investigation for use, based upon RTP Company or other customer experience.

RTP Company makes no warranties, expressed or implied, concerning the suitability or fitness of any of its products for any particular purpose. It is the responsibility of the customer to determine that the product is safe, lawful and technically suitable for the intended use. The disclosure of information herein is not a license to operate under, or a recommendation to infringe on any patents.

Copyright 2024 RTP Company, 4/2024

Please contact your local RTP Company Sales Engineer by calling 1-507-454-6900 or 1-800-433-4787 (U.S. only), by email at rtp@rtpcompany.com, or visit www.rtpcompany.com



RTP Company Corporate Headquarters • 580 East Front Street • Winona, Minnesota 55987 USA website: www.rtpcompany.com • email: rtp@rtpcompany.com

y.com

TELEPHONE:

U.S.A. +1 507-454-6900 **SOUTH AMERICA** +55 11 4193-8772 MEXICO +52 81 8134-0403 EUROPE +33 380-253-000 SINGAPORE

CHINA +86 512-6283-8383 WIMAN CORPORATION +1 320-259-2554