

PERFORMANCE. SPECIALISTS. SOLUTIONS.

At PMC, we are so much more than just TPO....We also produce ABS, decorative laminations, high-performance cap layers and all combinations in between. We believe in going beyond the products and doing more.

Performance - We produce highly engineered thermoformable sheet that will deliver the results you expect from your high-performance finished products. In addition to being ISO certified, we follow strict and extensive guidelines to ensure that our sheet products are of the highest quality and result in peak performance.

Specialists - We pride ourselves on our high-performance products and high-performance people. We believe that hiring the right employees and providing them with the proper training so they can be the best in the industry is just as important as the products we sell. You can count on PMC to listen to your needs and provide customize solutions.

Solutions - Not only do we provide a wide range of products, we provide solutions, too. Our team of specialists will pinpoint the right product, work with you to tackle all your tough projects, and stay with you through any hurdles you may encounter along the way. We know the custom thermoforming industry is constantly changing, and so are we.

Through the growth of our manufacturing operations, and acquisition by world leading thermoplastics manufacturer SIMONA, we are proud to offer cutting-edge edge technologies and services to the markets we serve. **We invite you to visit our facilities any time for a guided tour.**



Acrylonitrile Butadiene Styrene is a terpolymer alloy that is known for good impact resistance, high stiffness, resistance to creep, ease of processing and versatility, which makes it one of the most widely used thermoplastics in the industry.

PMC offers a number of ABS options based on desired impact and surface performance. ABS will break down when exposed to UV light but that can be prevented by adding one of our weather-resistant cap layers.

TYPES

- // UV Resistant
- // High Impact
- // Medium Impact
- // Low Impact
- // Flame Retardant

HIGH PERFORMANCE CAPS

- // ASA (Weatherable High Gloss)
- // Soft Touch
- // Decorative Film
- // Acrylic (Weatherable High Gloss)
- // Vinyl
- // Low Gloss

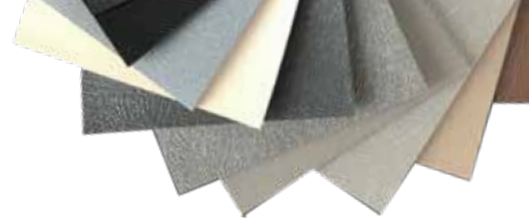
POPULAR APPLICATIONS

- // Heavy Truck Cab Interior
- // Electrical Housings
- // Cargo Haulers
- // Automotive Electronics
- // Computer Components

Co-extruded ABS products come in a variety of colors, textures, and gloss levels.



One Step Vinyl/ABS

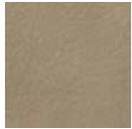


SIMONA PMC's One Step Vinyl/ABS products offer a textured, leather-like appearance and a refined feel. While maintaining dependable performance for forming applications, it retains the durability and rigidity to withstand wear and tear. A vinyl foam composite is laminated over ABS to create a piece that mimics hand-wrapped parts and is near impervious

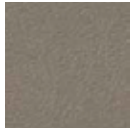
to scratches and marring. By adding vinyl, the regrind cannot be reused and the depth of draw is slightly decreased.

Vinyl/ABS is like a high-performance leather. It has a sophisticated look and feel while also providing the lasting durability required for a high-performance lifestyle.

STOCK COLORS*



Tan



Prairie Tan



Med. Neutral



Graphite



Med. Gray



Charcoal



Dark Portland



Med. Dark
Pewter



Blue Gray



Bone



Mocha



White



Slate Gray



Black (BS)



Black (FX)



Black (MC)

POPULAR APPLICATIONS

// Van Interior

// Automotive Interior

// ATV Components

// Marine Dashboards

// Recreational Vehicle

// Explorer Van Interior

PC/ABS

Combining Polycarbonate with ABS results in the best of both worlds. You get the ease of processing ABS and the durability of polycarbonate. This combination also improves heat deflection temperature, stiffness, and low-temperature impact resistance. It requires a cap or coating for weatherability and can be challenging to process, but because it is easy to paint and has a high flex modulus, it is always in demand.

PC/ABS saves time and money when compared to using metal by reducing the number of tools needed to process a piece. It's also rigid and tough but still pliable enough to form features that are not possible with metal.

Softflex ASA/ABS

SoftFlex ASA/ABS is a coextruded styrenic system that offers the weatherability & chemical resistance of ASA combined with the versatility of ABS. The high elastomer content of the ASA cap provides an ultra low-gloss look and a soft-touch feel that makes it ideal for multiple interior & exterior applications.



Since ASA is compatible with ABS, regrind can be re-used back into future extrusion runs, without significant loss in performance.

POPULAR APPLICATIONS

- // Structural Parts
- // Exterior Body Panels
- // Electronics
- // Prototypes
- // Heavy Truck Bumpers
- // Telecommunications Application

- // Marine dashes and trim
- // Automotive aftermarket parts
- // Bus interiors
- // Van conversion interiors

Materials



Good



Better



Best

	DENSITY	STIFFNESS	TENSILE STRENGTH	IMPACT TOUGHNESS
ABS	Dark Gray	Dark Gray	Dark Gray	Light Gray
Low Gloss ABS	Dark Gray	Dark Gray	Dark Gray	Light Gray
PMMA -capped ABS	Dark Gray	Dark Gray	Dark Gray	Light Gray
High Gloss ASA/Capped ABS	Dark Gray	Dark Gray	Dark Gray	Dark Gray
Soffflex ASA/ABS	Dark Gray	Dark Gray	Dark Gray	Light Gray
FR ABS	Dark Gray	Dark Gray	Dark Gray	Light Gray
One Step Vinyl/ABS	Dark Gray	Dark Gray	Dark Gray	Light Gray
Copolymer PP Alloys	Red	Light Gray	Dark Gray	Dark Gray
TPO	Dark Gray	Dark Gray	Dark Gray	Red
High Melt Strength	Dark Gray	Dark Gray	Dark Gray	Red
Utility TPO	Dark Gray	Dark Gray	Dark Gray	Red
High Gloss TPO	Dark Gray	Dark Gray	Dark Gray	Red
Low Gloss TPO	Dark Gray	Dark Gray	Dark Gray	Red
FR TPO	Dark Gray	Dark Gray	Dark Gray	Dark Gray
Soft-touch TPO (Exultra™ 2000)	Dark Gray	Dark Gray	Dark Gray	Red
Acrylic-capped TPO (StrataGem™ SMR)	Dark Gray	Dark Gray	Dark Gray	Red
PC/ABS	Light Gray	Red	Red	Red
FR PC/ABS	Light Gray	Red	Dark Gray	Dark Gray

This information is for comparison purposes only. The information is based on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described.

THERMAL EXPANSION	HEAT DEFLECTION TEMPERATURE	HARDNESS	SCRATCH & MARRING RESISTANCE	UV RESISTANCE	CHEMICAL RESISTANCE	EASE OF COATING & BONDING	THERMOFORMING PROCESS WINDOW	RESISTANCE TO FLAMMABILITY	RECYCLABILITY
Dark Gray	Dark Gray	Dark Gray	Dark Gray	Light Gray	Light Gray	Red	Red	Light Gray	Red
Dark Gray	Dark Gray	Dark Gray	Dark Gray	Light Gray	Light Gray	Red	Red	Light Gray	Red
Dark Gray	Dark Gray	Red	Red	Red	Dark Gray	Red	Red	Light Gray	Dark Gray
Dark Gray	Dark Gray	Dark Gray	Red	Red	Dark Gray	Red	Red	Light Gray	Red
Dark Gray	Dark Gray	Light Gray	Light Gray	Dark Gray	Dark Gray	Red	Red	Light Gray	Dark Gray
Dark Gray	Dark Gray	Dark Gray	Dark Gray	Light Gray	Light Gray	Red	Red	Red	Dark Gray
Dark Gray	Dark Gray	Light Gray	Red	Red	Dark Gray	Red	Dark Gray	Light Gray	Light Gray
Light Gray	Dark Gray	Light Gray	Light Gray	Dark Gray	Red	Light Gray	Light Gray	Light Gray	Red
Red	Red	Light Gray	Light Gray	Dark Gray	Red	Dark Gray	Dark Gray	Light Gray	Red
Red	Dark Gray	Light Gray	Light Gray	Dark Gray	Red	Dark Gray	Dark Gray	Light Gray	Red
Red	Dark Gray	Light Gray	Light Gray	Dark Gray	Red	Dark Gray	Light Gray	Light Gray	Red
Red	Dark Gray	Light Gray	Dark Gray	Dark Gray	Red	Dark Gray	Light Gray	Light Gray	Dark Gray
Red	Dark Gray	Light Gray	Dark Gray	Dark Gray	Red	Dark Gray	Dark Gray	Light Gray	Red
Red	Dark Gray	Light Gray	Light Gray	Light Gray	Dark Gray	Dark Gray	Light Gray	Red	Dark Gray
Red	Dark Gray	Light Gray	Light Gray	Dark Gray	Red	Dark Gray	Dark Gray	Light Gray	Dark Gray
Red	Dark Gray	Dark Gray	Red	Red	Dark Gray	Dark Gray	Dark Gray	Light Gray	Dark Gray
Dark Gray	Red	Red	Red	Light Gray	Dark Gray	Dark Gray	Dark Gray	Dark Gray	Dark Gray
Dark Gray	Red	Red	Red	Light Gray	Dark Gray	Dark Gray	Dark Gray	Red	Dark Gray

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FR PC/ABS

This specific blend of polycarbonate and ABS with fire retardant additives meets stringent regulations for fire behavior, electrical safety, and resistance to chemicals, hydrolysis and heat. The sheet has good impact toughness at a wide temperature range, has excellent thermoforming properties, and is easy to machine.



Flame Characteristics

(based on final part thickness):

UL94V-2

(0.75mm: burning stops within 30 seconds on a vertical specimen)

UL94V-0

(1.5mm: burning stops within 10 seconds on a vertical specimen)

UL94V5VB

(2.0mm: burning stops within 60 seconds on a vertical specimen)

UL94V5VA

(3.0mm: burning stops within 60 seconds on a vertical specimen)

POPULAR APPLICATIONS

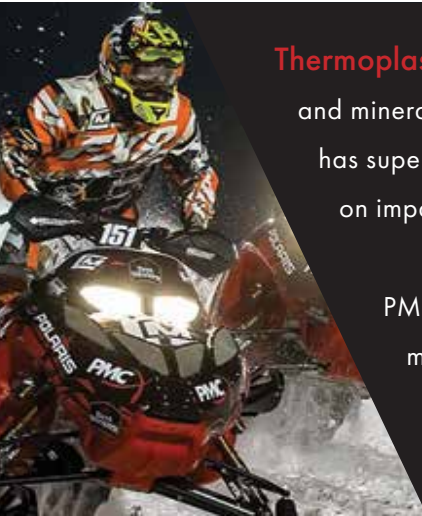
// Mass-Transit

// Electrical Enclosures

// Appliance Parts

// Medical Diagnostic
Equipment Covers





Thermoplastic Polyolefin is a compounded alloy of polypropylene, elastomers and mineral fillers offering a unique balance of stiffness and thermal expansion. TPO has superior weatherability so it does not require a cap, and it ranks extremely high on impact and chemical resistance.

PMC offers a wide range of different types and combinations of TPO which make us the leading supplier in the industry. Not only does PMC produce TPO in custom colors and finishes, we also make specialized grades to satisfy a range of needs.

TYPES

- // High Melt Strength
- // Surface Durability
- // Utility
- // Flame Retardant

CAPS

- // High or Low Gloss
- // Soft-touch TPO (Exultra™ 2000)
- // Acrylic-capped TPO (StrataGem™ SMR)
- // Decorative Film
- // Specialty
- // PremierCap

POPULAR APPLICATIONS

- // Exterior Panels
- // RV Parts
- // UTV Door Panels
- // ATV Roofs
- // Snowmobile Hoods
- // Heavy Truck Exterior



TPO is a great replacement for powder coated metal parts due to being lighter weight, more cost effective, and easier to form.

COPOLYMER PP ALLOY



Copolymer Polypropylene Alloy is the best product for those projects in the fast lane... literally. Because it has good wear and heat deflection and doesn't require a cap for weathering, it is ideal for producing body panels for race cars. This product offers improved impact resistance, weight reduction, and enhanced rigidity.

POPULAR APPLICATIONS

- // Race Car Body Panels
- // Marine Components
- // Door Trim
- // Bumper Facias
- // Instrument Panels

PMC Material Specifications

Thickness	0.030" - 0.400"
Width	24" - 112"
Layers	Mono 2 Layer (ABA co-extrusion) 3 Layer (ABA co-extrusion)
Lamination	In-line Off-line

PMC Material Weight Factors

Material	Weight Factor (lbs/in ³)
Copolymer PP Alloys	0.036
ABS	0.039
TPO	0.0405
Acrylic-capped ABS	0.041
PC/ABS	0.0415-0.045
FR PC/ABS	0.044
FR ABS	0.046
One Step Vinyl/ABS	N/A
PMMA (Acrylic)	0.044
StataGem™	0.041
Exultra 2000™	0.0405
ASA/ABS	0.040

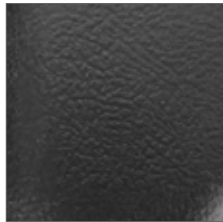
Textures & Finishes

PMC offers seven different textures and finishes. By applying a texture or sheen to a product you can add richness, depth, and shine to a part's appearance, making the part more marketable, and therefore giving it a higher value. Texture can also deliver visual enhancements on difficult-to-form parts. From the glass-like finish on the High Gloss to the intricate landscape of the Seville, we can provide you a look that is guaranteed to get noticed

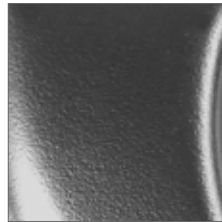
TEXTURES



Smooth
High Gloss



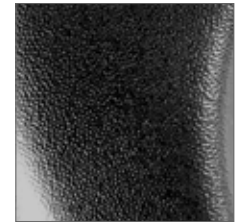
ECL-I/Saddle



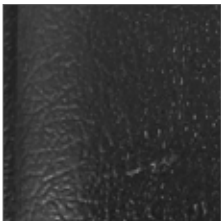
Calf



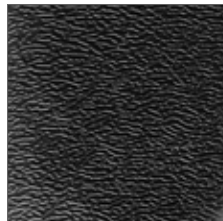
Sand



Swirl



Seville



Haircell



Woodgrain



CUSTOM EXTRUSION SOLUTIONS

ABS | TPO | Acrylic | ASA | PC/ABS | Soft-touch

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