



# ENGINEERED SHEET PRODUCTS

A DIVISION OF RTP COMPANY

## ESP™ Engineered Plastic Sheet

Our R&D Engineers offer unbiased, innovative thinking and attention to detail, providing you with the best specialty sheet solution for your application.

### Performance Enhancements

ESP Series	BASE POLYMER	ABBREVIATION	Performance Enhancements				
			Structural	Conductive	Flame Retardant	Wear Resistant	Color
01	Polypropylene	PP	●	●	●	●	●
02E	Amorphous Nylon	PA	●	●	●	●	●
03	Polycarbonate	PC	●	●	●	●	●
04	Polystyrene	PS	●	●	●	●	●
06	Acrylonitrile Butadiene Styrene	ABS	●	●	●	●	●
07	Polyethylene	PE	●	●	●	●	●
08	Acetal	POM	●	●		●	●
09	Polysulfone	PSU <span style="color: brown;">■</span>	●	●	●	●	●
14	Polyethersulfone	PES <span style="color: brown;">■</span>	●	●	○	●	●
18	Acrylic	PMMA	●	●		●	●
21	Polyetherimide	PEI <span style="color: brown;">■</span>	●	●	○	●	●
22	Polyetheretherketone	PEEK <span style="color: brown;">■</span>	●	●	○	●	●
25	Polycarbonate/ABS Alloy	PC/ABS	●	●	●	●	●
28	Thermoplastic Polyolefin Elastomer	TPE	●	●	●	●	●

■ = High Temperature Resins    ○ = Inherently Flame Retardant



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## ESP™ Product Capabilities

ESP has a wide range of capabilities to manufacture sheet products for your application requirements.

Our compounding expertise and access to a diverse resin portfolio allows us to provide you with top quality thermoplastic sheet, including specialty sheet with enhanced properties such as:



Available Textures

### Structural Performance

(glass, talc, carbon fiber, etc.)

### Conductivity

(anti-static, static dissipative, EMI/RFI shielding)

### Wear Resistance

(lubricated additives, etc.)

### High Temperature

(withstanding temperatures above 300 °F/150 °C)

### Flame Retardant

(ability to meet wide range of flammability standards)

### Custom Colors & Effects

(glow-in-the-dark, edge glow, speckled, and wood effects)

### Thermoplastic Elastomer

(SEBS and TPV compounds, range of hardnesses available)

## ESP Sheet Sizing

Production					
	Thickness	Width	Length	Available Textures	Minimum Order Quantity
Medium Line	.020" to .080"	10" to 32"	Any shippable length	Smooth, Matte	660 LBS
Large Line	.030" to .250"	28" to 58"	Any shippable length	Smooth, Matte, Heavy Grain	1,320 LBS

Evaluation (suitable for proof of concept) Injection molded plaques available upon request.					
	Thickness	Width	Minimum Order Quantity	Available Textures	Minimum Order Quantity
Lab Line	.020" to .080"	8" to 10"	Any shippable length	Smooth, Matte	50 LBS



### Sheet Weight Calculation (all dimensions in inches)

$$\text{Length (in.)} \times \text{Width (in.)} \times \text{Gauge (in.)} \times \text{specific gravity} / 27.68 = \text{lbs./sheet}$$

Note: for rolls, substitute the length for 36 inches (one linear yard) to determine the pounds per linear yard



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