

Extreme™ LG

Compounded Polypropylene

Spartech Plastics

Message:

Extreme™ LG is low gloss, high performance TPO sheet engineered for improved thermoforming characteristics. Extreme™ LG provides a wide processing range, enabling consistent, controlled sag performance for stable thermoforming. For OEMs Extreme™ LG provides excellent cold crack resistance, outstanding chemical resistance, and a medium to low gloss molded-in-color surface. Along with the improved processing window, Extreme™ LG provides the most cost effective TPO in the marketplace for large part thermoforming applications.

Features and Benefits

- Low gloss cap surface
- Tough, high impact TPO structure
- Integral UV-protective package
- Wide thermoforming processing window
- Resilient to high vibration applications
- Low CLTE for dimensional stability

Target Markets & Applications

- Extreme™LG is a great choice for a wide range of applications and market segments
- Agricultural & Construction Equipment - for engine cover, fenders, canopies
- Medium & Heavy Truck - for front bumpers, battery covers, cab extenders
- Recreational Vehicles - for bumpers, light housings, wheel flares, engine covers
- Power Sports - for ATV fenders, flares, body armor, front hoods, canopies, accessories
- Automotive Aftermarket - for tonneau covers, scoops / spoilers, ground effects, step ups
- Lawn & Garden - for fenders, front hoods, instrument fronts, mower decks, canopies
- Marine - for kayak and paddle boat decks, instrument panels, light pods, storage covers

Processing

Extreme™ LG can be thermoformed in standard thermoforming ovens, although zoned ceramic or quartz heaters are recommended. Forming over temperature-controlled aluminum tooling results in the best part aesthetics. Molds made from fiberglass or epoxy, can be used for tooling prototyping or small part runs. Care must be taken in forming to heat sheet evenly and not overheat. Stock temperatures of approximately 340°F - 360°F are recommended targets, but each process should be adjusted to allow proper forming. As with any thermoplastic material, coefficient of thermal expansion and mold shrinkage should be considered for proper part fit and tooling design.

Colors & Textures

Extreme™LG is offered in a wide variety of custom colors for metaling, metallic colors available.

Availability Textures - Hair cell, calf, smooth

Availability

- Sheet Size maximum width is 92-inch
- Gauges 0.060 - 0.400-inch
- Minimum Order - 5,000 lbs.

General Information	
Additive	UV Stabilizer
Features	Good Dimensional Stability
	Good Toughness
	Good UV Resistance
	High Impact Resistance
	Low Gloss
	Vibration Damping
Uses	Agricultural Applications
	Automotive Applications
	Automotive Bumper
	Automotive Exterior Parts

Construction Applications
Lawn and Garden Equipment
Marine Applications
Sporting Goods

Appearance	Colors Available		
	Finishes Available		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08 to 1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	0.70	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	21.4	MPa	ASTM D638
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength	66.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	350	J/m	ASTM D256
Gardner Impact	30.5	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	116	°C	ASTM D648
CLTE - Flow (-30 to 30°C)	4.0E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value		Test Method
Gardner Gloss	25 to 30		ASTM D523

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