Extreme[™] HG

Compounded Polypropylene

Spartech Plastics

Message:

Extreme[™] HG is a high gloss, high performance, thermoplastic olefin (TPO) structure engineered for improved thermoforming characteristics. Extreme[™] HG provides a wide processing range, enabling consistent, controlled sag sheet for stable thermoforming. For OEMs, Extreme[™] HG provides excellent cold crack resistance, outstanding chemical resistance, a high gloss molded-incolor surface. Along with the improved processing window, Extreme[™] HG provides the most cost effective TPO in marketplace for large part thermoforming applications.

Features and Benefits High gloss cap surface Tough, high impact TPO structure Integral UV-protective packages for cap and substrate Wide thermoforming processing window Resilient to high vibration application Low CLTE for dimensional stability Target Markets & Applications Extreme[™] HG is a great choice for a wide range of applications and market segments Agricultural & Construction Equipment - for engine hoods, covers, fenders, instrument panels Medium & Heavy Truck - for tank cover, air deflector, bumpers Recreational Vehicles - for front caps, end caps, ground effects Power Sports - for ATV fenders, flares, body armor, front hoods, canopies, accessories Automotive Aftermarket - for tonneau covers, scoops / spoliers, 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™ HG can be thermoformed in standard thermoforming ovens, although zoned ceramic or guartz 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[™] HG can be matched in a wide variety of custom colors. Metallic colors available. Availability Textures - Smooth, hair cell and calf Availability Extreme[™] HG is a custom extruded sheet product 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 Gloss
	High Impact Resistance
	Vibration Damping
Uses	Agricultural Applications
	Automotive Applications
	Automotive Bumper

	Automotivo Extenien Dente		
	Automotive Exterior Parts		
	Construction Applications		
	Lawn and Garden Equipment		
	Marine Applications		
	Sporting Goods		
Appearance	Colors Available		
	Finishes Available		
Forms	Sheet		
Processing Method	Thermoforming		
-	Nominal Value	11-14	Test Method
Physical		Unit	
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, 4.57 mm)	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	85		ASTM D523

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