



## Extreme Plus HG™ and Extreme Plus LG™ High Performance Thermoplastic Polyolefin

### PRODUCT DESCRIPTION

Extreme Plus HG™ and Extreme Plus LG™ sheet are both high performance thermoplastic polyolefin (TPO) structures. With a wide processing range, they are specifically engineered for easy, consistent and stable thermoforming. Extreme Plus HG is our high gloss sheet, while Extreme Plus LG offers the same performance properties with the option of a lower gloss finish. These tough, high impact TPO sheets provide excellent cold crack resistance and outstanding chemical resistance. A high or low gloss, molded-in-color surface can be achieved on many applications where harsh weather, chemicals, heavy vibration or heat stresses are factors.

### MARKETS AND APPLICATIONS

Extreme Plus HG and Extreme Plus LG sheet are exceptional choices for many markets and applications, including:

- **Automotive Aftermarket** – tonneau covers, scoops, spoilers, step-ups
- **Medium & Heavy Truck** – tank covers, air deflectors, bumpers

- **Recreational Vehicles** – front caps, end caps, ground effects
- **Power Sports** – ATV fenders, flares, body armor, hoods, accessories
- **Agricultural & Construction Equipment** – engine covers, fenders, canopies
- **Lawn & Garden** – fenders, front hoods, mower decks
- **Marine** – kayak decks, instrument panels, light pods, storage covers

### KEY CHARACTERISTICS

- High or low gloss cap surface with a high impact TPO structure
- Ease in thermoforming
- Integral UV protective package
- Resilient to high vibration
- Dimensionally stable
- Available in a wide range of custom colors, thicknesses and sizes

Call 800-677-4338 or email [marketing@spartech.com](mailto:marketing@spartech.com) to order these products.

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| <b>TECHNICAL PROPERTIES</b>             |                    |                               |                               |
|---|--------------------|-------------------------------|-------------------------------|
| <b>PROPERTY</b>                         | <b>TEST METHOD</b> | <b>EXTREME PLUS HG VALUE*</b> | <b>EXTREME PLUS LG VALUE*</b> |
| Specific Gravity                        | ASTM D792          | 1.10                          | 1.10                          |
| Tensile Strength                        | ASTM D638          | 2,800 psi                     | 2,800 psi                     |
| Tensile Modulus                         | ASTM D638          | 350,000 psi                   | 350,000 psi                   |
| Flexural Modulus                        | ASTM D638          | 320,000 psi                   | 320,000 psi                   |
| Mold Shrinkage                          | Internal           | 0.007" - 0.009"               | 0.007" - 0.009"               |
| Izod Impact (Notched) 73° F             | ASTM D256          | 13.0 ft-lbs/in                | 13.0 ft-lbs/in                |
| Heat Deflection Temperature (@66psi)    | ASTM D648          | 238° F                        | 238° F                        |
| Coefficient of Linear Thermal Expansion | ASTM D696          | 2.4x10 <sup>5</sup> in/in/° C | 2.4x10 <sup>5</sup> in/in/° C |
| Gardner Gloss (60°)                     | ASTM D523          | 85-90                         | 20                            |
| Flammability                            | FMVSS 302          | 0.060"                        | 0.060"                        |

\* All values based on 0.125" unless otherwise stated

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11650 Lakeside Crossing Ct., Maryland Heights, MO, 63146 • 800-677-4338 • [www.spartech.com](http://www.spartech.com)

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