

**MATERIAL SPECIFICATION: POLYCARBONATE ABS****1.0 SCOPE:**

This specification details the range of acceptable material specification values for extruded sheet of polycarbonate/ABS, color black. Each lot of material for L-3 GCS must meet the specified values listed in Table 3.1.

2.0 ORDER OF PRECEDENCE:

In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3.0 RAW MATERIAL PROPERTIES:

Material Property	Manufacturer's Published Value	L3-GCS Acceptable Value Range	Comments
Tensile Strength	7,500 psi	Greater than 6,000 psi	ASTM D 638-10 0.2 inch/min
Izod Impact, notched, 73 °F	10 ft-lb/in	Greater than 7.5 ft-lb/in	ASTM D 256-06a, Method A
Melt Flow	N/A	Less than 0.400 g/10min	Conditions 250 °C, 1.2 kg weight ASTM D 1238-10

Table 3.1: Polycarbonate/ABS Extruded Sheet Property Range

**4.0 POST FORMING MATERIAL PROPERTIES:**

Material Property	Manufacturer's Published Value	L3-GCS Acceptable Value Range	Comments
Tensile Strength	7,500 psi	N/A	ASTM D 638-10 0.2 inch/min
Izod Impact, notched, 73 °F	10 ft-lb/in	Greater than 6.0 ft-lb/in	ASTM D 256-06a, Method A
Melt Flow	N/A	N/A	Conditions 250 °C, 1.2 kg weight ASTM D 1238-10

Table 4.1: Polycarbonate/ABS Formed Case Property Range

5.0 DOCUMENTATION:

Printed documentation must be provided by the material extruder for each log of material. Documentation must detail at a minimum: Tensile Strength, Izod Impact Notched and Melt Flow properties. The material property values must use units and methods as listed in Table 3.1. Documentation must be stored for a minimum of three years.

6.0 VERIFICATION:

L-3 GCS maintains the right to test the material for verification purposes. In the event the material does not meet the specified values listed in table 3.1 & 4.1, L-3 GCS shall return the full lot of material full refund or replacement.