

**ELECTRICAL SHEET**
**TECHNICAL DATA**

**PROTECTOLITE™ 1090** is a semi-conductive electrical grade sheet that is manufactured under high heat and pressure in matched metal moulds. It is of solid construction and has excellent mechanical and conductive properties. This product is typically used to provide a pathway to dissipate static charge and prevent flash over.

<b><u>PROPERTIES:</u></b>	<b><u>VALUES:</u></b>	<b><u>METHOD:</u></b>
<b>TENSILE STRENGTH</b>	<b>13,000 psi</b>	<b>ASTM D635</b>
<b>TENSILE MODULUS</b>	<b>1.0 X 10<sup>6</sup> psi</b>	<b>ASTM D635</b>
<b>FLEXURAL STRENGTH,</b>	<b>25,000 psi</b>	<b>ASTM D790</b>
<b>FLEXURAL MODULUS</b>	<b>0.9 X 10<sup>6</sup> psi</b>	
<b>COMPRESSIVE STRENGTH</b>	<b>30,000 psi</b>	<b>ASTM D790</b>
<b>SHEAR STRENGTH</b>	<b>9,000 psi</b>	<b>ASTM D732</b>
<b>IZOD IMPACT, notched,</b>	<b>&gt;9.5 ft-lb /in</b>	<b>ASTM D256</b>
<b>SURFACE RESISTIVITY</b>	<b>500 to 1300</b>	<b>ASTM D257</b>
<b>1/8" material</b>	<b>Ohms/Square</b>	
<b>WATER ABSORPTION</b>	<b>&lt; 0.5 %</b>	<b>ASTM D570</b>
<b>24 Hours @ 23<sup>o</sup> C</b>		
<b>TEMPERATURE CLASS*</b>	<b>Class R 220<sup>o</sup>C</b>	<b>IEEE</b>
<b>SPECIFIC GRAVITY</b>	<b>1.60</b>	<b>ASTM 792</b>

**STANDARD COLOURS:**  
 BLACK

**STANDARD SIZES:**

36"x72", 37"x73" and 48"x96" sheets, 1/32" - 6", NEMA & plus NEMA Tolerances. All sheets are HOMOGENEOUS in thickness, NO BONDING or JOINTS

**CUSTOM SIZES:**

Up to 50"x 96", 1/32" up to 6", NEMA & plus NEMA Tolerances.  
 Metric thicknesses are also available.

**DELIVERY:**

Stock for standard sheets, custom sizes as required.

*\*Approximate Temperature Class is listed. Classification depends on end use and location on the material in the system.*

The property values are based upon tests believed to be reliable, performed on laboratory test plaques. However, no liability is assumed resulting from its use. We suggest that the user perform tests in order to establish the material suitable for the specific application.

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