



## Material Technical Data Sheet-SMC 1005

ARVIN product category: MRF203135S

**Product Description:** SMC-1005 materials are based on U.P resin reinforced by glass Fibers and recommended for compression moldings. SMC 1005 has high tensile strength and good electrical properties. Moreover, it is prepared for electrical components and general applications.

### Chemical data:

<b>Resin</b>	U.P- no halogen – highly reactive
<b>Glass Fiber</b>	E-glass (30% of total weight)
<b>Molding temp.</b>	145-165°C
<b>Molding time</b>	50-900 Sec. depends on molding shape



Industrial

### Physical data:

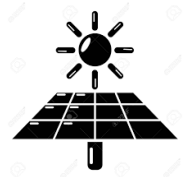
<b>Density (ISO 1183)</b>	1.75-1.85	gr / cm <sup>3</sup>
<b>Shrinkage (ISO 2577)</b>	0.03	%
<b>HDT (ISO 75)</b>	>160	°C
<b>T.g (ASTM D7028)</b>	>200	°C
<b>Service Temp.</b>	190	°C
<b>Tensile strength (ISO R3268)</b>	130	MPa
<b>Young Modulus (ISO 178)</b>	10	GPa
<b>Flexural strength (ISO 178)</b>	180	MPa
<b>Water Absorption (ISO 62)</b>	0.1	%
<b>Di-Electric (IEC 60243)</b>	>25	KV/mm
<b>Glow Wire (IEC 60707)</b>	850	°C



Electrical



Automotive



Energy