

**PRODUCT DESCRIPTION :**
**SMC & BMC with fire retardancy (halogen free) and electrical strength**

Material properties		SMC			BMC		
		46LS177AD	46LS17000	36SP1593E	84LS25(XXX)	75LS24(XXX)	13LS2492K
<b>Aesthetic</b>	Color	Black	All	Black	All	All	Black
<b>Physical</b>	Density <i>ISO 1183 (g/cm<sup>3</sup>)</i>	1.86	1.76	1.74	1.79	1.91	1.86
	Shrinkage <i>ISO 2577 (%)</i>	0.05	0.02	0.09	0.06	0.04	0.03
<b>Mechanical</b>	Flexural strength <i>EN ISO 14125 (MPa)</i>	250	220	190	100	100	110
	Flexural modulus <i>EN ISO 14125 (MPa)</i>	10 200	11 000	11 000	12 000	12 800	13 000
	Heat distortion temperature <i>EN ISO 75-2 (°C)</i>	>200	>200	>200	>200	>200	>200
	Mechanical RTI <i>UL 746B (°C)</i>	130	130	105	130	130	105
<b>Electrical</b>	Comperative Tracking Index (CTI) <i>CEI 60112 (V)</i>	60	600	600	600	600	600
	Electrical strength <i>CEI 60243-1 (kV/mm)</i>	>10	>10	>10	>10	>10	>10
	Surface resistivity <i>CEI 60093 (Ohm/carré)</i>	>1.10E14	>1.10E14	<1.10E6 <i>(Anti-static)</i>	>1.10E14	>1.10E14	<1.10E6 <i>(Anti-static)</i>
	Electical RTI <i>UL 746B (°C)</i>	130	130	105	130	130	105
<b>Fire retardancy</b>	UL approval <i>UL 94 V0</i>	1.9 mm	3 mm	3 mm	1.5mm	3 mm	1.5mm
<b>Other</b>	Water absorption <i>ISO 62 méthode 1</i>	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

**The information on this sheet is a guide.** The stated values reflect an average of several tests conducted on IDI Composites Europe's goods. These values were obtained under ideal conditions and may not be replicated in any particular test, part, or application. Because the values achieved in actual parts depend considerably on part design, molding conditions, and testing methods, no guarantee is made or implied regarding values to be obtained in any specific test, part, or application. IDI Composites Europe makes no warranty or representation as to the suitability of any of its goods for use in any application. IDI Composites Europe relies on customer to conduct its own tests and judge for itself the suitability of IDI Composites Europe's goods.

01-2024