

PRODUCT DESCRIPTION :
SMC reinforced with carbon fibers

Material properties		Ultrium		
		Standard	HP	UD
Aesthetic	Color	Black		
Physical	Density <i>ISO 1183 (g/cm³)</i>	1.4	1.4	1.4
	Shrinkage <i>ISO 2577 (%)</i>	-0.06	-0.11	-0.09
Mechanical	Flexural strength <i>EN ISO 14125 (MPa)</i>	420	440	480 - 200
	Flexural modulus <i>EN ISO 14125 (MPa)</i>	25 600	31 700	48 000 - 22 700
	Tensile strength <i>EN ISO 527-4 (MPa)</i>	190	200	280 - 80
	Tensile Modulus <i>EN ISO 527-4 (MPa)</i>	32 900	37 900	48 000 - 22 700
	Charpy Impact <i>EN ISO 179 (kJ/m²)</i>	90	80	100 - 45
Electrical	Surface resistivity <i>CEI 60093 (Ohm/carré)</i>	<1.10E6		
Fire retardancy	Flammability <i>FMVSS 302 (mm/min)</i>	<100		
Other	Water absorption <i>ISO 62 méthode 1</i>	<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