



## Technical Data Sheet

Manufacturer: **Apply Carbon SA, France**

Product: **CF-MLD** **CF.LS-MLD (very low sizing)**

Description: A mixture of carbon and graphite fibres specially selected and milled for thermoplastic and thermoset compounds. The sizing is compatible with the widest range of thermoplastic matrices, polymers and elastomers including polyamides, polyurethanes, polyesters, polycarbonates, polyphenylsulphones, etc. CF.LS-MLD is freeflow, particularly suitable for use in thermosets such as epoxy, polyester, PU etc.

Applications: Thermoplastics, thermosets, gasket materials  
 Imparts electrical and thermal conductivity, increased strength, modulus and dimensional stability.

Properties:

	<b>CF-MLD</b>	<b>CF.LS-MLD</b>
<b>Structure</b>	dry flocked	free flow powder
<b>Carbon content</b>	92% (min 90%)	93% (min 90%)
<b>Sizing level</b>	1.5% ± 0.6%	0.3% ± 0.2%
<b>Density (fibre)</b>	1.8 ± 0.2	1.8 ± 0.2
<b>Filament diameter</b>	7 µm ± 2	7 µm ± 2
<b>Volume resistivity</b>	15 µΩm (30 max)	15 µΩm (30 max)
<b>Average length</b>	220 ± 30 µ	150 ± 30 µ
<b>Bulk density (approx.)</b>	0.3 kg/dm <sup>3</sup> ± 0.15	0.35 kg/dm <sup>3</sup> ± 0.15
<b>Tensile strength</b>	3.5 GPa (min 3)	3.5 GPa (min 3)
<b>Elongation at break</b>	1.5% (min 1.3)	1.5% (min 1.3)
<b>Young's modulus</b>	230 GPa (min 200)	230 GPa (min 200)

Packaging: Polyethylene bags 12.5kg or 25kg

Health & Safety: Manufacturers MSDS available on request