CASTRO COMPOSITES

DATA SHEET

0 TU 0 0 5 0 V 0 X 0 2 0 V 0 LI 150

| TYPE OF PULTRUDED | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Quadro cavo / Tube | L | 50,0 | h | 20,0 | Sp. | 3,0 | 150 [Gpa] | Smooth |

| PULTRUDED SIZE | | | | | | | MIX FIBERS | | | TYPICAL PROPERTIES PULTRUDED | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | UNI EN 13706-1-2-3 ISO527 | | | | | | | | | | | ISO 11357-2 DSC | | | | | |
| Width | | Height | | Thickness | | Nominal area pultruded | Area employed by fiber | | | Elastic modulus | Elastic modulus x Section | Tensile strength | Tensile strength on section | Fiber component (Volume) | | | Fiber Density | Matrix Density | Pultruded Density | Strain at the tensile strength | Glass trans. temperature | Operating temperature | Fire behavior | Color | Resin type |
| L | | h | | Sp | | A | 1° Fibre | 2° Fibre | 3° Fibre | *E* | *E A* | σ | *σ A* | *Vf* | | | ρf | ρm | ρP | *ϵ* | *T* | *T* | | | |
| mm | | mm | | mm | | mmq | mmq | | | [ Gpa ] | [ kN ] | [ Mpa ] | [ kN ] | mmq | % | Toll. | g/cmc | g/cmc | g/cmc | % | °C | °C | To be protected with coatings | Black | Epoxy |
| 50 | +/- 0,05 | 20 | +/- 0,05 | 3 | +/- 0,50 | 384,00 | 260,5 | 0,00 | 0,00 | 150 | 57.600 | > of 2.463 | 946 | 261 | 68% | >= | ~ 1,8 | ~ 1,2 | ~ 1,6 | ~ 1,5 | 140 | -30 / +100 | Da proteggere con rivestimenti | Nero | Eposs. |

** The characteristics indicated in the table are calculated values on the base of the carbon fiber performance supplied by the manufacturers*

| TIPICAL PROPERTIES OF FIBERS | | | | | |
|---|---|---|---|---|---|
| Number of fiber | Tensile modulus | Tensile strength | Density | Elongation | Fiber identification |
| x 1000 | [ Gpa ] | [ Mpa ] | [ g/cmc ] | % | n° |
| 24 | 234 | 4.830 | 1,80 | 2,0% | 1° Fibre |
| 0 | - | - | - | - | 2° Fibre |
| 0 | - | - | - | - | 3° Fibre |



| | |
|---|---|
| **Danger** | *The pultruded material is an electrical conductor* |
| | *If the package is rolled up, pay attention to the unrolling because the material is under tension* |
| | *In the case of machining (cutting, abrasion, drilling, milling) it is recommended to use protective masks, glasses and gloves* |

| | |
|---|---|
| **Storage** | *Store the boxes in a dry place and keep the product away from the sun* |
| **Warning** | *If the surfaces are provided with peel ply, it is recommended to remove it before using the pultruded* |
| **Notes** | |