

## Ultra Thin and Tape Grade Physically Crosslinked Polyolefin Foam



泉碩科技股份有限公司  
Mega Master Technology



Mega Master Technology, formerly Liang Haw Fiber is a subsidiary of Liang Woei Enterprise.

In 1997, Liang Haw Fiber introduced its Electron-Beam (EB) Irradiation Technology entering the environmental-friendly high-polymer foam material industry and, thereafter, was renamed as Mega Master Technology.

# Mega Master



## The professional physically crosslinked polyolefin foam manufacturer

With more than 20 years experience in the manufacture of high performance and environmentally friendly polyolefin foam, Mega Master has become a leader in the industry.

Our leading-edge production process guarantees high quality material while our experience allows us to be a total solution provider, giving professional service to all of our customer.



open cell foam



eFoam products





## About eFoam, ultra thin and tape grade

eFoam ultra thin and tape grade is a series of polyolefin foam with thickness ranging from 0.2mm to 1.5mm. It is water proof, dustproof, shielding, damp proof, and lightweight which is suitable to be used for sealing and absorbing materials.

With closed cell structure and independent, even cell size, eFoam ultra thin and tape grade performs outstanding durability, tensile strength and tear strength which lead to stable fabrication process.

eFoam ultra thin and tape grade is also available for anti-static and fire retardant properties.

### eFoam



### Product feature

- Excellent shock absorbing property protects portable electronic products from damage when dropping.
- Low compression strength to improve sealing function.
- Waterproof, dustproof
- Anti-static available
- Uniform cell size.
- Excellent converting ability.
- In compliant with RoHS and REACH.

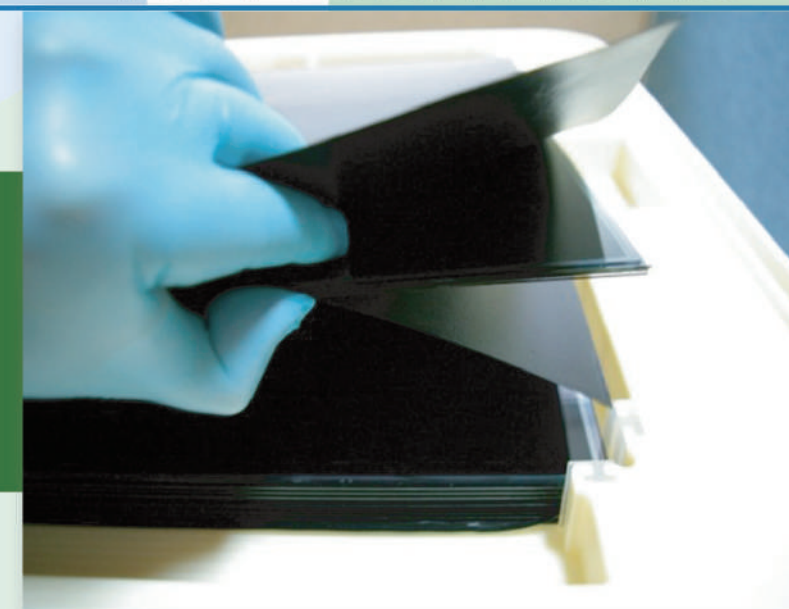
### Mobile devices sealing gasket

Waterproof, dust proof. It is designed to prevent small vibration of frames, and avoid light leaking.

Electronic application

## APPLICATIONS

### Packaging Material & Spacer

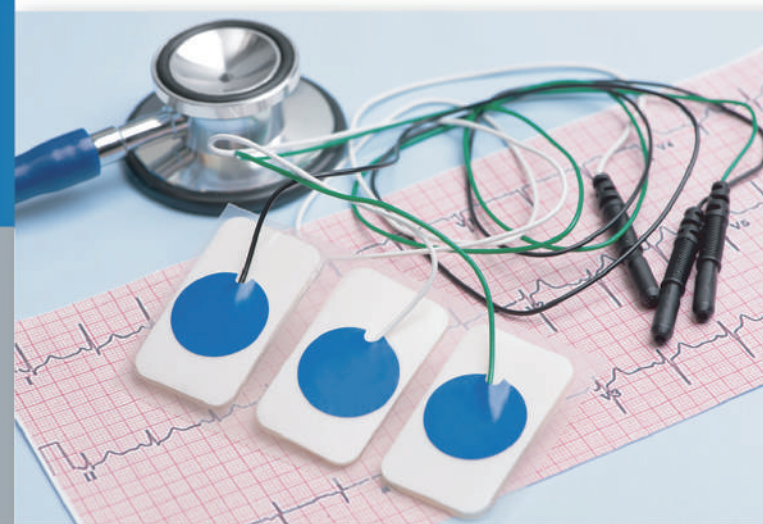


Packaging material for electronic device such as inter-leaf materials for LCD panels.

- Semiconductor chip case
- Anti-static: Permanent anti-static property which is not affected by humidity in the environment. Anti-static property can prevent static accumulation which can cause damage on electronic products.

Medical application:

- Passed ISO 10993 Biological Evaluation of Medical Devices
- Homogeneous closed-cell structure with double side fine skin.
- Improved elongation and tensile strength. Soft and appropriate for various surgical procedures, wound dressings and pads for electrocardiogram instruments.



Medical application







**MEGA MASTER  
TECHNOLOGY**

### MECHANICAL PROPERTIES SPECIFICATION

| 項目<br>ITEM | 物性項目<br>PROPERTY                  | 單位<br>UNIT | 物性値 VALUE    |              |               |              |              |              |              |              |              |              |              |              |              | 方 法<br>METHOD |                                      |
|------------|-----------------------------------|------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------------------------------|
|            |                                   |            | W Series (V) |              | W Series (TF) |              |              |              |              |              |              |              |              |              |              |               |                                      |
|            |                                   |            | 05008        | 05010        | 030015        | 04003        | 05004        | 05005        | 07006        | 08007        | 10005        | 10008        | 10010        | 15008        | 15010        |               | 15015                                |
| 1          | 視密度<br>Apparent Density           | kg/cm³     | 195.7        | 196.1        | 328.3         | 228.4        | 197.9        | 197.8        | 128.0        | 111.1        | 97.8         | 96.9         | 90.4         | 60.5         | 64.6         | 61.6          | JIS K 6767                           |
| 2          | 厚度<br>Thickness                   | mm         | 0.75<br>0.81 | 0.96<br>1.05 | 0.15<br>0.18  | 0.27<br>0.30 | 0.36<br>0.42 | 0.47<br>0.52 | 0.59<br>0.64 | 0.69<br>0.77 | 0.46<br>0.52 | 0.75<br>0.82 | 0.95<br>1.03 | 0.75<br>0.82 | 0.93<br>1.02 | 1.46<br>1.56  | ASTM D 3575                          |
| 3          | 硬度<br>Hardness                    | ---        | 45-46        | 46-47        | 55-56         | 52-53        | 51-52        | 51-52        | 42-43        | 41-42        | 33-34        | 32-33        | 31-32        | 27-28        | 30-31        | 29-30         | JIS S 6050<br>SRIS-0101<br>(GS-701N) |
| 4          | 抗拉強度<br>Tensile Strength          | kgf/cm²    | 38.2<br>26.5 | 36.4<br>24.6 | 55.8<br>24.1  | 40.8<br>20.7 | 33.0<br>20.9 | 35.0<br>21.4 | 17.6<br>11.6 | 15.8<br>10.1 | 16.8<br>7.9  | 16.1<br>8.7  | 15.8<br>9.7  | 8.4<br>5.1   | 9.0<br>7.2   | 9.7<br>6.2    | JIS K 6767                           |
| 5          | 伸長率<br>Elongation                 | %          | 702<br>606   | 678<br>596   | 331<br>219    | 476<br>322   | 583<br>445   | 663<br>519   | 407<br>320   | 385<br>240   | 260<br>232   | 420<br>314   | 562<br>395   | 413<br>299   | 474<br>312   | 510<br>327    | JIS K 6767                           |
| 6          | 撕裂強度<br>Tear Strength             | kgf/cm     | 15.8<br>14.1 | 14.9<br>12.7 | 24.5<br>10.1  | 22.1<br>17.6 | 18.2<br>17.2 | 17.3<br>16.1 | 12.3<br>9.2  | 8.2<br>5.8   | 7.3<br>6.4   | 9.1<br>6.3   | 6.8<br>5.7   | 3.8<br>3.6   | 5.5<br>4.0   | 5.2<br>4.7    | JIS K 6767                           |
| 7          | 25%壓縮應力<br>25% Compression        | kgf/cm²    | 1.44         | 1.47         | 2.03          | 1.88         | 1.42         | 1.58         | 0.88         | 0.77         | 0.48         | 0.52         | 0.56         | 0.39         | 0.50         | 0.47          | JIS K 6767                           |
| 8          | 25%壓縮永久變形率<br>25% Compression Set | %          | 2.2          | 2.1          | 2.0           | 3.1          | 1.1          | 1.8          | 1.9          | 2.0          | 1.8          | 1.8          | 1.6          | 2.0          | 1.4          | 1.8           | JIS K 6767                           |

©MD/TD : Machine Direction / Transverse Direction

Floor Underlay

Floating Materials

Heat Insulation Materials

Shoe Materials





泉碩科技股份有限公司 Mega Master Technology  
Tel: +886 2 8671 1888  
Email: [info@mmefoam.com](mailto:info@mmefoam.com)  
Website: [www.mmefoam.com](http://www.mmefoam.com)  
Add: No 7, Tianfu, Sanxia Dist., New Taipei City, Taiwan