

**Microcell Composite Company CELLAMP® M5130 Thermoplastic Foam**

Category : Polymer , Thermoplastic

**Material Notes:**

CELLAMP® FOAM can be mixed with high polymer materials to form traditional compound rubbers and plastics like EPDM, IIR, NBR, SBR, SILICONE, and EVA. Injection or hot-press PE compounds have high damping characteristics. It is comfortable to the touch and has contour form memory characteristics. Information provided by Microcell Composite Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Microcell-Composite-Company-CELLAMP-M5130-Thermoplastic-Foam.php](http://www.lookpolymers.com/polymer_Microcell-Composite-Company-CELLAMP-M5130-Thermoplastic-Foam.php)

| Physical Properties | Metric             | English                              | Comments  |
|---------------------|--------------------|--------------------------------------|-----------|
| Density             | 0.160 - 0.200 g/cc | 0.00578 - 0.00723 lb/in <sup>3</sup> | ASTM D792 |

| Mechanical Properties   | Metric   | English  | Comments       |
|-------------------------|--|--|----------------|
| Hardness, Shore C       | 42 - 46  | 42 - 46  | ASTM D2240     |
| Tensile Strength, Yield | 0.785 MPa  | 114 psi  | ASTM D412      |
| Elongation at Yield     | 200 %  | 200 %  | ASTM D412      |
| Tear Strength           | 1.96 kN/m  | 11.2 pli                                       | ASTM D624      |
| Compression Set         | 80 %<br>@Temperature 70.0<br>°C,<br>Time 21600 sec | 80 %<br>@Temperature 158 °F,<br>Time 6.00 hour | 50%; ASTM D395 |

| Thermal Properties | Metric   | English  | Comments   |
|--------------------|--|--|------------|
| Shrinkage          | 2.0 %<br>@Temperature 70.0<br>°C,<br>Time 2400 sec | 2.0 %<br>@Temperature 158 °F,<br>Time 0.667 hour | ASTM D1204 |

| Descriptive Properties | Value | Comments   |
|------------------------|-------|------------|
| Resiliency (%)         | 30    | ASTM D2632 |

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