# Technical Data Sheet

**Product Reference: Miothene 30**
**Product Description: Closed Cell Polyethylene Foam**

## Specification

| Properties | Values | Standard |
|---|---|---|
| Nominal Density | 30 Kg/m³ | ASTM D3575-08 Suffix W<br>ISO 845:2006 |
| Cell Size | ≥26 Cells | BS 4443/1 Met.4 |
| Compressive strength at 25% (4th compression)<br>(100mm/min compression speed) | 30KPa | ISO 3386 1986 part 1<br>DIN 53577 |
| Compressive strength at 50% (4th compression)<br>(100mm/min compression speed) | 90KPa | ISO 3386 1986 part 1<br>DIN 53577 |
| Compressive strength at 70% (4th compression)<br>(100mm/min compression speed) | 205KPa | ISO 3386 1986 part 1<br>DIN 53577 |
| Compressive Strength<br>Vertical @ 25%<br>(100mm/min compression speed) | 45KPa | ASTM D3578-08 Suffix D<br>OSO7214:2007 |
| Compressive Strength<br>Vertical @ 50%<br>(100mm/min compression speed) | 95KPa | ASTM D3578-08 Suffix D<br>OSO7214:2007 |
| Compression set | <10% | ASTM D3575-08 Suffix B<br>50% Compression |
| Compressive Creep<br>(1.25psi – 8.75 kg/dm²) | <10% | ASTM D3575-08 Suffix BB<br>168 hrs |
| Compressive Creep<br>(1.25psi – 8.75 kg/dm²) | <15% | ASTM D3575-08 Suffix BB<br>1000 hrs |
| Water Absorption | <3 Volume% | ASTM D3575-08 Suffix L<br>ISO 2896:1986 |
| Thermal Conductivity | 0.05W/mK | ASTM C-177 ISO 8301 |
| Thermal Stability<br>(24hrs at 70°C) | <2% | ASTM D3575-08 Suffix S<br>ISO 2796 |
| Tear Strength<br>(MD/CD) | 17N/cm<br>18N/cm | ASTM D3575-08 Suffix G |
| Tensile Strength @ peak (MD/CD) | 250KPa<br>200KPa | ASTM D3575-08-Suffix T<br>Iso 1798:2008 |
| Tensile Elongation<br>(MD/CD) | 70%<br>65% | ASTM D3575-08 ISO<br>1798:2008 |
| Flame Retardant Version | 1 Class | UL 94HF |
| Fire-Test Response Characteristics | Pass | FMVSS 302 |

**(1) These numerical laboratory fire-test-response characteristics are not intended to reflect hazards presented by material under actual fire conditions.**