



**ACOUSTICAL**

*Celebrating 38 years — since 1980*

**SURFACES INC.**

Soundproofing | Acoustics | Noise & Vibration Control

## Porous Expanded Polypropylene PEPP

### General Characteristics

|   |           |
|---|-----------|
| Density, lbs / ft <sup>3</sup> (pcf)              | 2.8       |
| Porosity, %                                       | 30        |
| Tensile strength, psi                             | 27        |
| Tensile elongation, %                             | 13        |
| Compressive strength @ 25% strain, psi            | 29        |
| Compressive set, %                                | 9         |
| Repeated compressive set %                        | 9         |
| Dimensional change by heat @ 110°C, %             | <1.0      |
| Thermal conductivity, kcal/mhr°C                  | 0.037     |
| Chemical resistance                               | Excellent |
| Water vapor permeability, g/m <sup>2</sup> hrmmHg | 0.323     |
| Buoyancy, pcf                                     | 38.2      |

### Flammability of Flame Retardant Grade of Porous EPP

|   |     |
|---|-----|
| ASTM E84 Flame spread index, 0.75 inch thickness      | 18  |
| ASTM E84 Flame smoke development, 0.75 inch thickness | 124 |

### Acoustic Performance

|   |      |      |
|---|------|------|
| NRC @ 1" thick, Type A Wall Mount                 | 0.35 | T=40 |
| NRC @ 2" thick, Type A Wall Mount                 | 0.50 | T=60 |
| NRC @ 1" thick, Type E400 Ceiling Mount           | 0.45 | T=45 |
| NRC @ 2" thick, Type E400 Ceiling Mount           | 0.50 | T=55 |
| STC @ 1" thick                                    | 9    |      |
| STC @ 2" thick                                    | 13   |      |
| STC @ 1 3/4" thick with 5/8 in. gypsum cap sheets | 32   |      |