



**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	