

## PROPERTIES OF P.E. FOAM

CLASSIFICATION	ITEMS	UNIT	P.E. FOAM	REMARKS
CELL STRUCTURE	DENSITY	G / cm <sup>2</sup>	0.025 0.040	
	CELL SIZE	MM	0.26 - 0.33	
	CROSSED CELL RATOP	%		
PHYSICAL PROPERTIES	TENSILE STRENGHT	Kg / cm <sup>2</sup>	2.2 - 3.4	
	ELONGATION	%	130 – 140	
	COMPRESSION 10%	Kg / cm <sup>2</sup>	0.030	
	COMPRESSION 20%	Kg / cm <sup>2</sup>	0.197	
	COMPRESSION	Kg / cm <sup>2</sup>	0.787	
	PERMANENT COMPRESSION SET	%	6.5	
	REPEATED COMPRESSION SET	%	5.0	
	TEARING STRENGTH	Kg / cm <sup>2</sup>	2.2 - 2.4	
	COMPRESSION STRENGTH	Kg / cm <sup>2</sup>	0.52 - 1.6	
RESILIENCY	%	30-35		
THERMAL PROPERTIES	HEAT DISTORATION TEMPERETURE	°c	-70 – 80	
	THERMAL CONDUCTIVITY	Kcal / m H°c	0.027- 0.040	
	HEAT SHRINKAGE	%	-2.3 - 0.4	
	COEFFICIENT OF LINEAR EXPANSION	1/°c	17X10 <sup>-5</sup>	
	COMBUSTIBILITY			
	COMBUSTION RATE	Cm / min	5.4 – 10.0	
	INSULATION			
WATER RESISTANCE PROPERTIES	WATER ABSORPTION	Mg / cm <sup>2</sup>	0.03	
	WATER VAPOR TRANSMISSION RATE	G / m <sup>2</sup> hr	0.01	
	MOISTURE TRANSMISSION RATE	G / m <sup>2</sup>	4062	
	PHENOMENON	24hr		
	WATER RESISTANCE MOISTURE RESISTANCE			
ELECTRIC CHARATER	DIELECTRIC CONSTANT	(1khz)	1.05 – 1.58	Antistatic item
	VOLUME RESISTIVITY	/cm	10	
	DIELECTRIC STRENGTH	Kt / mm	4.6	
	DISSIPATION FACTOR	Tan8 (1khz)	0.0001	
OTHER PROPERTIES	BUOYANCY	G/l	.....	
	RECYCLABILITY	100%		No 4 LDPE
	CLARITY	%	45	