



## Technical Information Sheet – TIS 09 (previously T13) Energy Absorption Capacity of Azote Foams

### INTRODUCTION

The energy absorption characteristics of Plastazote foams are shown in the table for compressions at velocities of 100 mm/min.

Dynamic performance will be similar, with energy absorption capacity slightly enhanced. The data given is for the first compression on samples 100 x 100 x 30 mm.

Grade	Energy Absorbed J/cm <sup>3</sup>						
	Compression						
	10%	20%	30%	40%	50%	60%	70%
Plastazote <sup>®</sup> LD24	0.002	0.006	0.012	0.019	0.029	0.043	0.064
Plastazote <sup>®</sup> LD33	0.003	0.008	0.015	0.024	0.036	0.052	0.078
Plastazote <sup>®</sup> LD45	0.005	0.013	0.022	0.034	0.048	0.067	0.095
Plastazote <sup>®</sup> LD60	0.011	0.026	0.042	0.061	0.083	0.123	0.149
Plastazote <sup>®</sup> LD70	0.010	0.028	0.046	0.067	0.092	0.111	0.168
Plastazote <sup>®</sup> HD30	0.011	0.025	0.039	0.056	0.075	0.098	0.129
Plastazote <sup>®</sup> HD60	0.035	0.085	0.134	0.185	0.243	0.312	0.403
Plastazote <sup>®</sup> HD80	0.047	0.124	0.202	0.281	0.366	0.468	0.601
Plastazote <sup>®</sup> HD115	0.060	0.168	0.275	0.383	0.501	0.641	0.821
Propozote <sup>®</sup> PPA30	0.009	0.020	0.033	0.047	0.064	0.085	0.113
Evazote <sup>®</sup> EV50	0.002	0.005	0.011	0.018	0.027	0.042	0.063

The stiffer and more dense the foam, the greater the energy absorbed.

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