

EPS Specifications

Specification reference: ASTM C578				Type XI	Type I
Property		Units	ASTM Test		
Thermal Conductivity (k Factor)	at 40°F	BTU/hr. (sq.ft.) (F/in.)	C518	0.28	0.24
	at 75°F			0.30	0.26
Thermal Resistance (R Value)*	at 40°F	at 1" thickness	—	3.6	4.17
	at 75°F			3.3	3.85
Strength Properties					
Compressive 10% Deformation		psi	D1621	5-9	10-14
Flexural		psi	C203	10-18	25-30
Tensile		psi	D1623	14-18	16-20
Shear		psi	D732	11-13	18-22
Shear Modulus		psi	—	190-230	280-320
Modulus of Elasticity		psi	—	110-150	180-220
Moisture Resistance					
WVT		perm. in	E96 (Proc.A)	1.9-3.9	1.2-3.0
Absorption (vol.)		%	C272	<4.0	<3.5
Capillarity		—	—	none	none
Coefficient of Thermal Expansion		in./(in.) (F)	D696	0.000035	0.000035