

CFOAM

METRIC

Property	Test Method	Units	CFOAM20	CFOAM25	CFOAM30
Nominal Density	ASTM D 1622	g/cc	0.32	0.40	0.48
Compressive Strength	ASTM C 365	kPa	6,037	10,337	16,042
Compressive Modulus	ASTM C 365	MPa	1,665	2,121	2,586
Tensile Strength	ASTM C 297	kPa	2,250	3,573	5,214
Tensile Modulus	ASTM C 297	MPa	1,708	1,996	2,266
Shear Strength	Torsion Shear	kPa	1,310	1,690	2,065
Coefficient of Thermal Expansion	ASTM E 228	ppm/°C	5.0	5.0	5.0
Thermal Conductivity	ASTM E 1225 / Laser Flash	W/m-K	25°C: 0.3	25°C: 0.4	25°C: 0.5
			500°C: 0.8	500°C: 1.0	500°C: 1.2
			1000°C: 1.0	1000°C: 1.3	1000°C: 1.6
			2000°C: 5.6	2000°C: 6.7	2000°C: 7.8
Maximum Operational Use Temperature	Application Dependent	°C	Extended Use: 370 - Air 3,040 - Inert	Extended Use: 370 - Air 3,040 - Inert	Extended Use: 370 - Air 3,040 - Inert
Electrical Resistivity	ASTM D 4496	ohm-cm	Std. Product: 7x10 ⁻²	Std. Product: 6x10 ⁻²	Std. Product: 5x10 ⁻²
			Tailorable from 2x10 ⁻³ to 2x10 ⁷	Tailorable from 2x10 ⁻³ to 2x10 ⁷	Tailorable from 2x10 ⁻³ to 2x10 ⁷
Fire Resistance	ISO 1182 ASTM E1354, E119 IMO FTP Pt I & III UL1709	N/A	PASS	PASS	PASS

CFOAM

US

Property	Test Method	Units	CFOAM20	CFOAM25	CFOAM30
Nominal Density	ASTM D 1622	lbs/ft ³	20	25	30
Compressive Strength	ASTM C 365	psi	876	1,500	2,327
Compressive Modulus	ASTM C 365	ksi	241	308	375
Tensile Strength	ASTM C 297	psi	326	518	756
Tensile Modulus	ASTM C 297	ksi	248	289	329
Shear Strength	Torsion Shear	psi	190	245	300
Coefficient of Thermal Expansion	ASTM E 228	ppm/°F	2.8	2.8	2.8
Thermal Conductivity	ASTM E 1225 / Laser Flash	W/m-K	77°F: 0.3	25°C: 0.4	25°C: 0.5
			932°F: 0.8	500°C: 1.0	500°C: 1.2
			1832°F: 1.0	1000°C: 1.3	1000°C: 1.6
			3632°F: 5.6	3632°F: 6.7	3632°F: 7.8
Maximum Operational Use Temperature	Application Dependent	°F	Extended Use: 700 - Air 5,500 - Inert	Extended Use: 700 - Air 5,500 - Inert	Extended Use: 700 - Air 5,500 - Inert
Electrical Resistivity	ASTM D 4496	ohm-in	Std. Product: 2.8x10 ⁻²	Std. Product: 2.4x10 ⁻²	Std. Product: 2.0x10 ⁻²
			Tailorable from 8x10 ⁻⁴ to 8x10 ⁶	Tailorable from 8x10 ⁻⁴ to 8x10 ⁶	Tailorable from 8x10 ⁻⁴ to 8x10 ⁶
Fire Resistance	ISO 1182 ASTM E1354, E119 IMO FTP Pt I & III UL1709	N/A	PASS	PASS	PASS