

# TECHNICAL SPECIFICATION



PARAMETER		UNIT	VALUE
		ASTM C533 (Type I)	ALASKASIL Result Value
Use temperature, max, °F (°C)		1200 (649)	> 1200 (649)
Density (dry), max, lb/ft <sup>3</sup> (kg/m <sup>3</sup> )		15 (240)	>15 (240)
Flexural strength, min, psi (kPa)		50 (344)	>50 (344)
Compressive strength, min, at 5 % deformation, psi (kPa)			
Mass loss by tumbling, max, %	a) after first 10 minutes	20	<20
	b) after second 10 minutes	40	<40
Soaking heat linear shrinkage, max, %		2	<2
Hot surface performance: warpage, max, in. (mm) cracking		1/4 (6)	<1/4 (6)
Apparent thermal conductivity (see Note 2) Btu-in./h-ft <sup>2</sup> -°F (W/m-K) max at mean temperature of:			
100°F (38°C)		0.41 (0.059)	<0.41 (0.059)
200°F (93°C)		0.45 (0.065)	<0.45 (0.065)
300°F (149°C)		0.50 (0.072)	<0.50 (0.072)
400°F (204°C)		0.55 (0.079)	<0.55 (0.079)
500°F (260°C)		0.60 (0.087)	<0.60 (0.087)
600°F (316°C)		0.66 (0.095)	<0.66 (0.095)
700°F (371°C)		0.71 (0.102)	<0.71 (0.102)
800°F (427°C)			
900°F (482°C)			
1000°F (538°C)			
Surface burning characteristics:	Smoke density index, max	0	0
	Flame spread index, max	0	0
Non-Combustibility		Pass	Pass
Moisture content, by weight, max %		20	<20