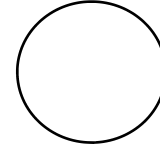




New Metals & Chemicals Ltd

PI-300 POLYIMIDE FOAM



<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>SI VALUE</u>					
MECHANICAL							
Density	ASTM D 3574, Test A	6.4kg/m ³					
Tensile Strength	ASTM D 3574, Test E	48kPa					
THERMAL							
Thermal Conductivity (k)	ASTM C 518 at mean Temperature of 24°C (75°F)	0.046 W(m-K)					
Continuous Use Temperature	Recommended maximum	300°C					
FLAMMABILITY							
Radiant Panel Flame Spread Index	ASTM E 162	1					
Specific Optical Density of Smoke, D _m : Non-flaming Flaming	ASTM E 662	1					
		3					
Surface Burning Characteristics: Flame Spread Index (FSI) Smoke Developed Index (SDI)	ASTM E 84-95 Tested at thickness of 22 mm (0.9 in)	0 10					
AGING							
Steam Autoclave Aging: Tensile strength retained Change in weight and dimensions	ASTM D 3574, Test J, Procedure J, and Test E	>85% <3%					
ACOUSTICAL							
Acoustical Absorption Coefficients (sabins/ft ² or metric sabins/m ²) Thickness	ASTM C 423 and E 795, Type A Mounting						
	Frequency (Hz)						
	125	250	500	1000	2000	4000	NRC
25 mm (1 inch)	0.08	0.22	0.58	0.93	0.94	0.81	0.65
50 mm (2 inches)	0.34	0.52	0.86	1.06	0.85	0.94	0.80

typical values subject to normal manufacturing variation

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