



Foamular® - Metric Insulation Physical Properties

Property	Unit	Test Standard	Foamular Metric								
			FM150	FM250	FM300	FM350	FM400	FM450	FM500	FM550	FM650
Density	kg/m ³	ASTM D1622	25-28	31-40	34-40	36-42	38-44	40-45	40-45	41-46	42-48
Compressive Strength	kpa	ASTM D1621	>=150	>=250	>=300	>=350	>=400	>=450	>=500	>=550	>=650
Water Absorption Rate	%(v/v)	ASTM C272	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Water Vapor Permeance	ng/(pa.s. m ²) @ 25.4mm	ASTM E96	<63	<63	<35	<35	<35	<35	<35	<35	<35
Thermal Conductivity (R Value)	W/m.k @ 24°C	ASTM C518	R Value 25mm-R.89 30mm-R1.07 40mm-R1.42 50mm-R1.78 60mm-R2.14 75mm-R2.67 100mm-R3.57 50mm (With Foil) - R2.0								
Fire Rated Indices		AS1530.3	Ignitability 9 (0-20) Spread of flame 0 (0-10) Heat evolved 1 (0-10) Smoke developed 4 (0-10)								
As Tested With 6mm Poly Render			Ignitability 0 (0-20) Spread of flame 0 (0-10) Heat evolved 0 (0-10) Smoke developed 1 (0-10)								
As Tested With Foil Facing			BCA Group Classification 1 (Specs C 1.10 & A2.4)								
Dimensions (mm)			2450 x 600 (2450 x 1200 optional special order)								
Thickness (mm)			25, 30, 40, 50, 60, 75, 100								
<p>Reference Document - Australian Standard AS1366.4 Rigid Cellular plastic sheets for thermal insulation. Part 4 Rigid Cellular Polystyrene Extruded RC/PS-E</p> <p>Physical Properties - AS1366.4 Table 3.</p> <p>Recommended Application - AS1366.4 Appendix B Table B1.</p> <p>CFC free since 1992</p> <p>Blowing agent used is ozone safe HCFC142B</p> <p>Compressive strength @10% deflection</p>											