



Physical Properties Data Sheet

FOAMALITE			
Typical Test Results			
Test	Test Method	Units	Average Result
Determination of water absorption	ISO 62: Method 1	%	0.19
Tensile Strength at Yield	ISO R527	MPa	19.37
Elongation at Break	ISO R527	%	17.89
Flexural Modulus	ISO 176	GPa	0.903
Charpy Impact Strength	ISO 179	kJm^{-2}	1.43
Shore D Hardness	ISO 868	Value	63
Heat Distortion Temperature	ISO 75: Method A	$^{\circ}\text{C}$	57.75
	ISO 75: Method B	$^{\circ}\text{C}$	68.4
Coefficient of Linear Expansion	In-House	$^{\circ}\text{C}^{-1}$	0.498×10^{-6}
Flame Spread Test	BS 476: Part 7: 1987 (as amended)	Class	1^Y

FOAMABRITE			
Typical Test Results			
Test	Test Method	Units	Average Result
Determination of water absorption	ISO 62: Method 1	%	0.16
Tensile Strength at Yield	ISO R527	MPa	25.61
Elongation at Break	ISO R527	%	10.61
Flexural Modulus	ISO 176	GPa	2.02
Charpy Impact Strength	ISO 179	kJm^{-2}	3.85
Shore D Hardness	ISO 868	Value	71
Heat Distortion Temperature	ISO 75: Method A	$^{\circ}\text{C}$	62
	ISO 75: Method B	$^{\circ}\text{C}$	67
Coefficient of Linear Expansion	In-House	$^{\circ}\text{C}^{-1}$	0.52×10^{-5}
Flame Spread Test	BS 476: Part 7: 1987 (as amended)	Class	1^Y

FOAMALITE X			
Typical Test Results			
Test	Test Method	Units	Average Result
Determination of water absorption	ISO 62: Method 1	%	0.19
Tensile Strength at Yield	ISO R527	MPa	19.37
Elongation at Break	ISO R527	%	17.89
Flexural Modulus	ISO 176	GPa	0.903
Charpy Impact Strength	ISO 179	kJm^{-2}	1.43
Shore D Hardness	ISO 868	Value	63
Heat Distortion Temperature	ISO 75: Method A	$^{\circ}\text{C}$	57.75
	ISO 75: Method B	$^{\circ}\text{C}$	68.4
Coefficient of Linear Expansion	In-House	$^{\circ}\text{C}^{-1}$	0.498×10^{-6}
Flame Spread Test	BS 476: Part 7: 1987 (as amended)	Class	1^Y

Due to the nature of this variant the above data is for a reference only and not taken as being exactly representative of the product supplied

FOAMAPRINT			
Typical Test Results			
Test	Test Method	Units	Average Result
Determination of water absorption	ISO 62: Method 1	%	0.039
Tensile Strength at Yield	ISO R527	MPa	54.48
Elongation at Break	ISO R527	%	13.12
Flexural Modulus	ISO 176	GPa	1.95
Charpy Impact Strength	ISO 179	kJm^{-2}	5.98
Shore D Hardness	ISO 868	Value	83
Heat Distortion Temperature	ISO 75: Method A	$^{\circ}\text{C}$	60
	ISO 75: Method B	$^{\circ}\text{C}$	70
Coefficient of Linear Expansion	In-House	$^{\circ}\text{C}^{-1}$	0.519×10^{-6}
Flame Spread Test	BS 476: Part 7: 1987 (as amended)	Class	1^Y

Data provided in this technical support sheet consists of approximate values based upon ongoing testing procedures and commercial experience. All Foamalite products described and included within this publication are subject to continuous quality control; in practice however, it is possible that figures here differ because of variations in the manufacturing processes and other external influences. It is recommended that distributors, processors and their customers establish the suitability of all Foamalite products for their application prior to use. Specifications are subject to change without notification.