DRAGON JACKET INSULATION

INSULATING CORE
TECHNICAL DATA SHEET

Updated 12/19/18

DESCRIPTION

DRAGON JACKET'S INSULATING CORE consists of 2.0 lb/ft3 (32.1 kg/m3) Density Foam. This technical data sheet pertains only to the INSULATING CORE. For finished product technical data, please see DRAGON JACKET INSULATION TECHNICAL DATA SHEET.

PHYSICAL PROPERTIES		ASTM METHOD	IMPERIAL UNITS	METRIC UNITS
Density[3]		D 1622	2.1 lb/ft^3	33.64 kg/m^3
Compressive Strength [3]		D 1621		
Parallel to Rise			26 lb/in'	179 kPa
Perpendicular to Rise			29 lb/in'	200 kPa
Shear Strength: Parallel and		C 273	27 lb/in'	187 kPa
Perpendicular Shear Modulus		C 273	346 lb/in"	2386 kPa
Tensile Strength: Parallel and		D 1623	33 lb/in^2	228 kPa
Perpendicular Flexural Strength: Parallel		C 203	54 lb/in'	372 kPa
and Perpendicular Flexural Modulus		C 203	864 lb/in'	5957 kPa
Thermal Conductivity: K-Factor (@ 1 " 10-day initial)		C 518	0.15 BTU.in/hr-f-t' F	0.022W/m-C
Thermal Conductivity: K-Factor (@ 1" aged 6 months)		C 518	0.18 BTU.in/hr.ft'-F	0.026 W/m-C
Thermal Resistance R-Factor (@ 1" aged 6 months)		C 518	5.6 hr-ft^2 F/BTU	0.99 m^2 C/W
Closed Cell Content		D 2856	>95 %	>95 %
Water Absorption (24-hour immersion)		C 272	0.04 % by volume 1.65	0.04 % by volume
Water Vapor Transmission		E 96	perm-inch	2.40 ng/Pa-s-m
Service Temperature[4]			-297°F to +300°F	-183 to +149C
Dimensional Stability'		D 2126		
@ -40°F (-40°C), 7 days:	Length		< +0.1 % Change	< +0.1 % Change
	Volume		< +0.1 % Change	< +0.1 % Change
@ 158°F (70°C)/97% RH, 7 days:	Length		< +1.0 % Change	< +1.0 % Change
	Volume		< +2.0 % Change	< +2.0 % Change
@ 212°F (100°C), 7 days:	Length		< +0.6 % Change	< +0.6 % Change
	Volume		< +1.0 % Change	< +1.0 % Change
Surface Burning Characteristics[6]			**UL Rating**	FM **Rating**
Flame Spread @4" (10 cm)		E84	25	25
Smoke Density@ 4" (10 cm)		E 84	195	130
Hot Surface		C 411	Pass	Pass

1. Physical properties are measured at 70°F-75°F, unless otherwise indicated, and all test values are from independent certified testing/laboratories.
2. These are nominal values obtained from representative product samples, and are subject to normal manufacturing variances.
3. Average value through the foam cross section.
4. Above 300°F, discoloration and charring will occur, resulting in an increased K-Factor in the discolored area.
5. Frequent and severe thermal cycling can produce dimensional changes significantly greater than those listed here. Special design considerations must be made in systems subject to severe cycling.
6. This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

MFG – USA

WWW.DRAGONJACKET.COM

(208) 772-8640 • INFO@DRAGONJACKET.COM

14080 N. THAYER ST. RATHDRUM, IDAHO 83858