



TECHNICAL DATA SHEET

SERIES 200 JACKET

DESCRIPTION

A 2mm thick Ultra Violet Resistant High Density Polyethylene sheet which has impact, abrasion, and chemical resistance sufficient for a wide range of environmental conditions.

The RAM Series 200 Jacket is Fastened with 316 Stainless Steel Marine Grade Bolts and Nuts.

COMPOSITION

UV stable 2mm HDPE with extruded welded HDPE block stiffeners running the full length of the jacket. Fastened with 316 Stainless Steel Marine Grade Bolts and Nuts.

PROPERTIES

2mm HDPE.

PROPERTY	TEST METHOD	UNIT	
Resin - Density	ASTM D 1505	g / cc	.9388
Resin - Melt Index	ASTM D 1238	g / 10 mins	.20
Sheet - Thickness Min Mean	ASTM D 5199	mm	1.8
	ASTM D 5199	mm	2.0
Sheet - MFI at 190/2.16	ASTM D 1238	g / 10 mins	≤1.0
Sheet - Density	ATSM D 1505	g / cc	≥ .94
Strength @ Yield	ASTM D 6693	N / mm	35
Elongation @ Yield	ASTM D 6693	%	>15
Strength @ Break	ASTM D 6693	N / mm	60
Elongation @ Break	ASTM D 6693	%	> 900
Tear Resistance	ASTM D 1004	N	> 275
Puncture Resistance	ASTM D 4833	N	>790

AUSTRALASIAN INDUSTRIAL WRAPPINGS & COATINGS PTY LTD

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PROPERTY	TEST METHOD	UNIT	
Ozone Resistance	ASTM D1149 (7 Days) 100ppm 104of)	oF	No cracks
Carbon Black Content	ASTM D 4218	%	$\geq 2 / \leq 3$
Water Absorption (% weight change)	ASTM D570	%	<0.01
Coef. Linear thermal expansion (10.4/c)	ASTM D696		1.2
Moisture Vapour Transmission (g/m 2day)	ASTM E96	g/m 2day	<0.001
Carbon Black Dispersion	ASTM D 5596	Category	Cat 1 or 2
Std O.I.T.	ASTM D 3895	mins	>180
Environmental Stress Crack Resistance (NCTL)	ASTM D 5397	Hrs	> 800
Oven Ageing/90 days HP O.I.T.	ASTM D 5721 ASTM D 5885	% retained	85%
UV Resistance / 1600hr HP O.I.T.	GRI – GM 11 ASTM D 5885	% retained	90%

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