



STOCK NO. 7921002

JULY, 2016

CARRARA ARMOURCOOL HD

Carrara ArmourCool HD is reinforced with a tough heavyweight non-woven reinforced composite polyester mat, which is coated and impregnated with SBS modified bitumen. Specially formulated for excellent fire resistance, this membrane has highly reflective, mineral granules embedded in the top surface to provide protection against ultraviolet radiation, while the underside is covered with a thin poly-film, which disappears upon heat-welding. Carrara ArmourCool HD utilizes the benefits of a Titanium Dioxide (TiO₂) compound which is applied onto the surface of Carrara. This Air Care Technology (ACT) treatment, in combination with sunlight, has been proven to act as a catalyst to convert NO_x compounds into nitrates. Carrara ArmourCool HD can be used as the top ply in a BUR or top ply in a modified bitumen roof system where system requirements call for diminished heat gain and reduced NO_x. Carrara ArmourCool is a durable membrane where diminished heat gain and emittance are a requirement. This product will easily satisfy the requirements of CGSB-37.56-M and ASTM D6162 Type I, Grade G materials. It also qualifies for a Class A fire rating in accordance with CAN/ULC S107M, UL790 and ASTM E108 test protocols. Please contact your IKO Technical Representative for specific slope requirements. IKO's products are produced and designed with consideration for environmental responsibility and sustainability, incorporating quality recycled components whenever possible, manufactured in facilities that comply with the most stringent government environmental regulations, and can therefore be a part of any "green" construction project.

CHARACTERISTIC		UNITS	NOMINAL VALUE	SPECIFICATION	TEST METHOD**	STANDARD LIMITS
ROLLS PER PALLET:		-	32	-	-	N/A
PALLET SIZE:		cm (in)	132 x 112 (52 x 44)	-	-	-
LENGTH:		m (ft)	8 (26.2)	-	-	± 1%
WIDTH:		mm (in)	1005 (39.6)	-	-	± 6 (1/4)
WEIGHT:		kgs (lbs)	38.3 (84.4)	-	-	-
THICKNESS:		mm (mils)	4.0 (158)	-	-	± 0.4 (16)
SELVAGE:		mm (in)	90 (3.5)	-	-	± 5 (1/4)
COLD FLEX:		°C (°F)	PASS	ASTM D6162	ASTM D5147	MIN: -18 (0)
STRAIN ENERGY @ 23°C	MD:	kN/m	7.3	CGSB-37.56-M	CGSB-37.56-M	MIN: 5.5*
	XD:		6.6			
TENSILE STRENGTH	MD:	kN/m	20.4	ASTM D6162	ASTM D5147	MIN: 13.1
	XD:		15.6			
ULTIMATE ELONGATION	MD:	%	76.3	ASTM D6162	ASTM D5147	MIN: 26
	XD:		83.4			
TEAR STRENGTH		N	71 69	CGSB-37.56-M	CGSB-37.56-M	MIN: 20*
LAP STRENGTH (5D @ 23°C)		kN/m	12	CGSB-37.56-M	CGSB-37.56-M	MIN: 4*
GRANULE LOSS:		g	0.26	ASTM D6162	ASTM D5147	MAX: 2.0
STATIC PUNCTURE:		N	PASS	CGSB-37.56-M	CGSB-37.56-M	≥ 150*
SOLAR REFLECTIVE INDEX:		-	82	LEED	ASTM C1549 ASTM C1371	MIN: 78

* CGSB-37.56-M revision, 9th draft, dated January 1997.

** Although both ASTM and CGSB have requirements for a particular test, only the more stringent is indicated.

The information on this Technical Data sheet is based upon data considered to be true and accurate, based on laboratory tests and production measurements, and is offered solely for the user's consideration, investigation and verification. Nothing contained herein is representative of a warranty or guarantee for which the manufacturer can be held legally responsible. The manufacturer does not assume any responsibility for any misrepresentation or assumptions the reader may formulate.