TRIANGLE FASTENER CORPORATION



Cleveland, OH 44109 P: 216.351.9933 F: 216.351.5008

www.trianglefastener.com

FASTENING SYSTEMS DESIGN AND ENGINEERING CENTER

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CERTIFICATE OF COMPLIANCE

Report No.: CC102810

Date: October 28, 2010 | UPDATE 02.29.16

This certifies that this product, provided by Triangle

Fastener Corporation, meets the following requirements;

Product: PIPE-MASTER

Material: EPDM and SILICONE (refer to page two for

details)

Country of Origin: Made in the Mexico
User: ______
Job Name: _____

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Approved: ______
Joe Stager

Joe Stager
VICE PRESIDENT
Product Development and Marketing

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AS PART OF A STANDARD CLASSIFICATION SYSTEM FOR RUBBER PRODUCTS THESE GENERAL SPECIFICATIONS PRESENT CONSERVATIVE ENGINEERING MINIMUMS WHICH SHOULD BE USED FOR DESIGN CRITERIA.

GENERAL RECOMMENDATIONS MUST BE TESTED FOR EXTREME APPLICATIONS

EPDM MAS	STER FLASH ENGINEERING SPECIFICATIONS	SILCONE N	IASTER FLASH" ENGI
ASTM D2000	M3 BA510 A14 B13 C12 F17 Z1 Z2 Z3 Z4 Z5 Z6 Z7	ASTM D2000	M4 GE 505 A19 B37
GRADE 3		GRADE 4	
TYPE B	GENERAL TEST TEMP 100C	TYPE G	GENERAL TEST TEN
CLASS A	VOLUME SWELL NO REQ	CLASS E	VOLUME SWELL MA
5	50 DUROMETER (RANGE)	5	50 DUROMETER (R.
10	TENSILE 10 MPa (APPROX 1450 PSI)	05	TENSILE 5 MPa (MIN
A14	HEAT AGING 70 hrs @ 100C	A19	HEAT AGING 70 hrs
B13	COMPRESSION SET 22 hrs @ 70C		CHANGE IN HARDN
	MAX 25% ASTM D395B		CHANGE IN TENSIL
C12	OZONE RESISTANCE		CHANGE IN ULTIMATE
	70 hrs @ 50pphm ASTM D1171	B37	COMPRESSION SET
	100% QUALITY RETENTION		MAX 50% ASTM D39
F17	LOW TEMPERATURE BRITTLENESS	C12	OZONE RESISTANCE
	3 min @ -40C PASS ASTM D2137 A, 9.3.2		70 hrs @ 50pphm PA
Z1	55 DUROMETER (SPECIFIC TARGET)	F19	LOW TEMPERATURE
Z2	EPDM (SPECIFIC ELASTOMER)	1.12	3 min ® -55C PASS
Z3	HORIZONTAL FLAME RESISTANCE, UL 94	G11	TEAR RESISTANCE.
	NOT TO EXCEED 3" / min	Z1	
Z4	OZONE RESISTANCE ADVANCED REQUIREMENT		55 DUROMETER (SP
	70 hrs @ 500 pphm @ 100F	Z2	SILICONE (SPECIFIC
Z5	ACCELERATED WEATHERING RESISTANCE	Z3	HORIZONTAL FLAM
	(U.V. LIGHT), ASTM G-53	-	NOT TO EXCEED 3"
Z6	TEAR RESISTANCE, ASTM D-624, DIE "C"	Z4	OZONE RESISTANC
27	RESISTANCE TO DISCOLORATION,		70 hrs @ 500 pphn
	ASTM D-1148 (GREY ONLY)		

ASTM 02000	M4 GE 505 A19 B37 C12 F19 G11 Z1 Z2 Z3 Z4				
GRADE 4					
	GENERAL TEST TEMP 225C				
	VOLUME SWELL MAX 80%				
5	50 DUROMETER (RANGE)				
05	TENSILE 5 MPa (MINIMUM 725 PSI)				
A19	HEAT AGING 70 hrs @ 225C				
	CHANGE IN HARDNESS MAX + 10 pts				
	CHANGE IN TENSILE MAX -30%				
	CHANGE IN ULTIMATE ELONGATION MAX -30%				
B37	COMPRESSION SET 22 hrs @ 1750				
	MAX 50% ASTM D395B				
C12	OZONE RESISTANCE				
	70 hrs @ 50pphm PASS ASTM D1171				
F19	LOW TEMPERATURE BRITTLENESS				
	3 min @ -55C PASS ASTM D2137 A, 9. 3. 2				
G11	TEAR RESISTANCE, ASTM D-624, DIE "B"				
Z1	55 DUROMETER (SPECIFIC TARGET)				
Z2	SILICONE (SPECIFIC ELASTOMER)				
Z3	HORIZONTAL FLAME RESISTANCE, UL 94				
	NOT TO EXCEED 3" / min				
Z4	OZONE RESISTANCE ADVANCED REQUIREMENT				
	70 hrs @ 500 pphm @ 100F				

THE "Z" PARAMETERS ARE PROPRIETARY STANDARDS ADOPTED BY AZTEC TO MORE CLEARLY INDICATE THE TYPE OF MATERIAL AND ITS SUPERIOR PERFORMANCE CHARACTERISTICS AS RELATED TO THE TYPICAL PIPE FLASHING ENVIRONMENT. NOTE THE ADDITIONAL OF "Z3" TO ASSURE COMPLIANCE WITH INTERNATIONAL BUILDING CODES AND "Z4" WHICH CLEARLY EXCEEDS THE PERFORMANCE REQUIRED BY THE INDUSTRY STANDARD, "C12".

THE MASTER FLASH PIPE FLASHING ENJOYS THE ONLY LISTING GRANTED TO DATE BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS AND CARRIES THE U.P.C. (UNIFORM PLUMBING CODE) SEAL,

CONTACT US AT ANY TIME FOR ANY ADDITIONAL INFORMATION.



DISCLAIMER: THIS INFORMATION IS FOR GENERAL INFORMATION ONLY AND CANNOT BE CONSTRUED AS A SUBSTITUTE FOR COMPETENTPROFESSIONAL ADVISE OR SERVICE. ANY PARTY CONSIDERING APPLICATION OR USE DOES SO AT THEIR OWN RISK AND ASSUMES ANY AND ALL RESULTING LIABITY FROM THIS APPLICATION OR USE.