



Sealing Solutions

RSS ENFORCER ENGINEERING SPECIFICATIONS

G-10/ FR-4 FLANGE ISOLATION GASKET KIT

Ramco® Sealing Solutions flange isolation gasket kits consists of all components necessary to isolate a flange. The ENFORCER style isolation gasket is manufactured from Nema grade G-10/FR-4 glass epoxy material incorporating a Viton sealing element and comes standard with two isolating Nema grade G-10 washers, two SAE zinc plated steel backup washers and one Nema grade G-10 sleeve tube for every bolt.

Ramco® Sealing Solutions manufactures for all types of applications and services. Products are machined in accordance with International standards such as ANSI, AWWA, MSSSP 44, B.S. 10, DIN, JIS specifications.

FLANGE ISOLATION GASKET KITS MATERIAL REQUIREMENTS:

EEVG10DWG10G10- ENFORCER FULL FACE ISOLATION GASKET KIT shall consist of

“E” Full Face “Enforcer” isolation gasket shall be manufactured from G-10/FR4 glass epoxy with a Viton Sealing Element

Nema Grade G10 isolating washers- 2 per bolt hole

SAE zinc plated steel backing washer- 2 per bolt hole

Nema Grade G10 isolating sleeve- 1 per bolt hole

EFVG10DWG10G10 ENFORCER RAISED FACE ISOLATION GASKET KIT shall consist of

“F” Full Face “Enforcer” isolation gasket shall be manufactured from G-10/FR4 glass epoxy with a Viton Sealing Element

Nema Grade G10 isolating washers- 2 per bolt hole

SAE zinc plated steel backing washer- 2 per bolt hole

Nema Grade G10 isolating sleeve- 1 per bolt hole

Ramco® Sealing Solutions Gasket kits are proudly manufactured in the USA and are fabricated from the highest quality American made materials possible to exceed industry standards.

Ramco® Sealing Solutions
4103R ½ Cameron St., Lafayette, LA 70503
337-706-8711 p 337-706-8713 f
info@ramcosealing.glacoxmail.com

NEMA: G10 FR4 GLASS PHENOLIC
TYPICAL PROPERTIES

		UNITS	VALUE		
			Thickness Tested		
			0.0625"	0.125"	0.500"
PHYSICAL PROPERTIES					
Specific Gravity (ASTM D792)		-			1.85
Rockwell Hardness (ASTM D785)	0.250" Build-up	M Scale	98		
Moisture Absorption (ASTM D570)	Condition A	%	0.10		
Flexural Strength (ASTM D790)	Condition A	psi	65,000 / 52,000		
	LW / CW	(Mpa)	(448.2) / (358.5)		
	Condition E-1/150: T-150	psi	29,000 / 26,000		
	LW / CW	(Mpa)	(199.9) / (179.3)		
Flexural Modulus (ASTM D790)	Condition A	kpsi	2,900 / 2,600		
	LW / CW	(Gpa)	(20.0) / (17.9)		
Tensile Strength (ASTM D638)	Condition A	psi	40,000 / 32,000		
	LW / CW	(Mpa)	(275.8) / (220.6)		
Izod Impact Strength (ASTM D256)	Condition A	ft-lb/in			
	LW / CW	(J/cm)			
	Condition E-48/50	ft-lb/in	7.90 / 7.30		
	LW / CW	(J/cm)	(4.22) / (3.90)		
Compressive Strength (ASTM D695)	Condition A	psi	66,000		
	Flatwise	(Mpa)	(455.1)		
Bonding Strength (ASTM D229)	Condition A	lb	2,300		
		(kg)	(1,043.3)		
Shear Strength (ASTM D732)	Condition A	psi	21,500		
	Perpendicular	(Mpa)	(148.2)		

		UNITS	VALUE		
			Thickness Tested		
			0.0625"	0.125"	0.500"
THERMAL PROPERTIES					
Temperature Index ¹ (UL Bulletin 746b)	Electrical / Mechanical	°C	130 / 140		
Coefficient of Thermal Expansion (IPC-TM 650-2.4.24)	X-axis / Y-axis	" / °C			
		x10 ⁻⁶	10.0 / 13.0		
Tg by DMA		°C	130		
Flammability Vertical (UL Bulletin 94)	Condition A	Class	V-0		
ELECTRICAL PROPERTIES					
Dissipation Factor @ 1 MHz (ASTM D150)	Condition A	-			
	Condition D-24/23	-	0.032		
Relative Permittivity @ 1 MHz (ASTM D150)	Condition A	-			
	Condition D-24/23	-	4.80		
Breakdown Voltage (ASTM D149)	Condition A	kVolts	66		
	Condition D-48/50	kVolts	65		
Electric Strength (ASTM D149)	Condition A	Volts/mil	630		
	Condition D-48/50	(kV/cm)	(248.0)		
		Volts/mil	670		
		(kV/cm)	(263.8)		
Arc Resistance (ASTM D495)	Condition A	sec	130		
Comparative Tracking Index (ASTM D3638)		Volts	600		