



HANNA RUBBER COMPANY

Data Center

## Gasket Material

Hanna Rubber’s proprietary compounded Peroxide Cured EPDM, PC70EP is the best choice for Data Center Cooling Systems, this Premium Grade material provides exceptional resistance to heat aging and unsurpassed compression set performance at elevated temperatures, making this the best choice to maintain consistent service and reliability in Data Center Cooling Systems.

Compound	PC70EP
Material	Peroxide Cured EPDM
Origin:	Made in the USA
Polymer:	EPDM (Ethylene-Propylene Rubber)
Temperature Range:	-67 to +275°F
Specification:	ASTM D2000 M4CA710 A25 B35 C32 EA14 F19
Compliance:	RoHS & REACH & Prop 65

## Physical Properties

Property	Test Method	Required
Hardness, Shore A	ASTM D2240	70 +/- 5
Tensile, PSI	ASTM D412	1450
Elongation, %	ASTM D412	200

**PC70EP is compatible with the following manufacturers list of specialty thermal fluid for direct-to-chip and electronic liquid cooling loops in datacom equipment cooling systems (DECS).**

Manufacturer	Product Name
Dow	DOWFROST LC 25%
Paratherm (Lubrizol)	Thermalin DTX
Dynalene	Dynalene HC-20 / HC-30
Tyforop Chemie	TYFOROP-C
Kilfrost	Kilfrost GEO
Huntsman	JEFFCOOL P150
Clariant	Antifrogen N
Hydrite	Safe-T-Therm PG
Dow	NORKOOL SLH

**Bolt Torque Table for ASME B16.5 Class 150# Flat Flanges with A193 Grade B7 Bolts for Full Face Hanna 70 Durometer Peroxide Cured EPDM Gaskets**

Pipe Size	Number of Bolts	Bolt Size	Torque per Bolt (ft-lbs)
1/2"	4	1/2"	19
3/4"	4	1/2"	27
1"	4	1/2"	35
1 1/4"	4	1/2"	54
1 1/2"	4	1/2"	60
2"	4	5/8"	120
2 1/2"	4	5/8"	120
3"	4	5/8"	120
3 1/2"	8	5/8"	120
4"	8	5/8"	120
5"	8	3/4"	200
6"	8	3/4"	200
8"	8	3/4"	200
10"	12	7/8"	320
12"	12	7/8"	320

1. This torque table applies for 1/16" and 1/8" thick homogeneous elastomeric gaskets. The pressure rating of the material may vary depending on the grade.
2. The above-mentioned torque values are based on a maximum bolt stress of 60,000 psi. Bolt yield should be at least 80,000 psi.
3. This table does not take flange strength into consideration. We recommend consulting the flange manufacturer to confirm the suitability of the above-mentioned values.
4. Apply torque in increments. When the gasket extends past the OD of the flange by 1/4" to 3/8", stop tightening.