

FLEXICARB[®] ST is a metal reinforced graphite laminate made by mechanically bonding industrial grade graphite to a 0.004" thick 316SS tang insert. No binders or resins are present in the graphite which is typically 97% pure and contains less than 50 ppm leachable chlorides. The values below are typical for 1/16" thick material. Note: Graphite is susceptible to oxidation.

Service	Max T @ minimum thickness	842°F (450°C)	
	Max P	2000 psi (140MPa)	
	pH Range	0 - 14	
Physical Properties	Color	Dark Gray	
	Density (facing only)	70 lb/ft ³ (1.1 g/cc)	
	Sheet Thickness	1/16" - 1/8" (150 mm - 3.20 mm)	
	Sheet Size	60" x 60" (1.50 m x 1.50 m)	
Mechanical Properties (ASTM F152)	Cross Grain Tensile (facing only)	650 psi (4.5 MPa)	
Sealing Properties	ASTM F36	Compressibility	38%
		Recovery	16%
	ASTM F37A	Fuel A @ 10 psi & 1000 psi Gasket Stress	<0.5 mL/hr.
	ASTM F38	Creep Relaxation	<5%
	DIN 3535	Nitrogen Gas Permeability	3.1 mL/min.
Design Information	Gasket Constants	m	2
		y	2500 psi (17.00 MPa)
	Recommended Surface Finish	125 - 250 µin (3.2 - 6.3 µm)	
	PVRC Constants	Gb	1400 psi (9.7 MPa)
		a	0.32
Gs		0.01 psi (0.00007 MPa)	

This Data Sheet relates to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same. The acquisition of additional information may necessitate revisions to parts or all of this Data Sheet, and such information will be supplied as it becomes available.

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FLEXICARB[®] SR is a metal reinforced graphite laminate made by adhesively bonding industrial grade graphite to a 0.002" thick flat 316SS insert. No binders or resins are present in the graphite which is typically 97% pure and contains less than 50 ppm leachable chlorides. The values below are typical for 1/16" thick material. Note: Graphite is susceptible to oxidation.

Service	Max T @ minimum thickness	842°F (450°C)	
	Max P	2000 psi (140 MPa)	
	pH Range	0 - 14	
Physical Properties	Color	Dark Gray	
	Density (facing only)	70 lb/ft ³ (1.1 g/cc)	
	Sheet Thickness	1/16" - 1/8" (150 mm - 3.20 mm)	
	Sheet Size	60" x 60" (1.50 m x 1.50 m)	
Mechanical Properties (ASTM F152)	Cross Grain Tensile (facing only)	650 psi (4.5 MPa)	
Sealing Properties	ASTM F36	Compressibility	40%
		Recovery	16%
	ASTM F37A	Fuel A @ 10 psi & 1000 psi Gasket Stress	<0.5 mL/hr.
	ASTM F38	Creep Relaxation	<5%
	DIN 3535	Nitrogen Gas Permeability	1.5 mL/min.
Design Information	Gasket Constants	m	2
		y	900 psi (6.00 MPa)
	Recommended Surface Finish	125 - 250 µin (3.2 - 6.3 µm)	
	PVRC Constants	Gb	816 psi (5.6 MPa)
		a	0.38
Gs		0.07 psi (0.0005 MPa)	

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