

Premium Grade (ASTM) Rubber Gasketing

Typical Physical Properties

Material	Premium Grade								
	EPDM	Neoprene	Neoprene	Neoprene	Nitrile	SBR	Fluoro-elastomer (Type A)	Fluoro-elastomer (Type A)	Fluoro-elastomer Blend
Style	8314	7986	7797	9064	9122	22	9518	9520	9780
Color	Black	Black	Black	Off-White	Black	Red	Black	Black	Black
Hardness (Shore A) ± 5	60	60	80	60	60	75	75	75	65-75
Tensile strength, min. (ASTM D412), psi (N/mm ²)	1,000 (7)	2,000 (14)	1,500 (10)	2,400 (17)	2,000 (14)	700 (5)	1000 (7)	1,000 (7)	1200 (8)
Elongation, min., %	300	350	125	790	500	150	175	180	175
Compression set, ASTM Method B (ASTM D395) 25% deflection, maximum %	22 hrs @ 158°F (70°C) 25	70 hrs @ 212°F (100°C) 35	70 hrs @ 212°F (100°C) 75		22 hrs @ 212°F (100°C) 20	22 hrs @ 158°F (70°C) 40		22 hrs @ 350°F (175°C) 50	
Volume chg after immersion in ASTM #1 Oil (ASTM D471) 70 hrs @ 212°F (100°C), %		-4 to 3	-7 to 0		-10 to 5				
Volume chg after immersion in ASTM #3 Oil 70 hrs @ 212°F (100°C), %		+50 to 80	+45 to 60		0 to 25				
Thickness available, inches	1/16, 3/32, 1/8, 3/16, 1/4	1/16, 3/32, 1/8, 3/16, 1/4 and greater	1/32, 1/16, 3/32, 1/8, 3/16, 1/4 and greater	1/32, 1/16, 3/32, 1/8, 3/16, 1/4 and greater	1/16, 3/32, 1/8, 3/16, 1/4 and greater	1/16, 3/32, 1/8, 3/16, 1/4 and greater	1/16, 1/8, 3/16, 1/4	1/16, 1/8	1/16, 1/8
Finish available	Thru 1/8": Cloth; Over 1/8": Smooth	Thru 1/8": Cloth; Over 1/8": Smooth	Thru 1/8": Cloth ; Over 1/8": Smooth	Thru 1/8": Cloth; Over 1/8": Smooth	Thru 1/8": Cloth; Over 1/8": Smooth	Thru 1/8": Cloth; Over 1/8": Smooth	Thru 1/8": Satin; Over 1/8": Smooth	Fabric	Fabric
Meets specifications		MIL-R-3065 MIL-Std. 417 Type S Grade SC620 A ₁ E ₃ E ₅	MIL-R-3065 MIL-Std. 417 Type S Grade SC815 A ₁ E ₃ E ₅	21CFR177.2600		HHG-156 Type III ASTM-D-1330 Grade I and II			
Temperature range, °F (°C)	-40°F (-40°C) to +300°F (+150°C)	-20°F (-29°C) to +250°F (+121°C)	-20°F (-29°C) to +250°F (+121°C)	-20°F (-29°C) to +250°F (+121°C)	-20°F (-29°C) to +250°F (+121°C)	-10°F (-23°C) to +200°F (+93°C)	15°F (-26°C) to +400°F (+204°C)	15°F (-26°C) to +400°F (+204°C)	-15°F (-26°C) to +400°F (+204°C)
Pressure, max., psig (bar)	250 (17)	250 (17)	250 (17)	250 (17)	250 (17)	250 (17)	250 (17)	250 (17)	250 (17)
P x T max., psi x °F (bar x °C)	30,000 (900)	20,000 (600)	20,000 (600)	20,000 (600)	20,000 (600)	20,000 (600)	30,000 (900)	30,000 (900)	30,000 (900)

Note:

Please consult Garlock Applications Engineering when approaching maximum temperature, pressure, or P x T limits.