

Table 8 Required properties and methods of testing for SBR push-on joint gaskets

Property	ASTM Test Method	Main Body of Gasket		Harder Portion (If Used)	
		Standard (US)	Metric	Standard (US)	Metric
Nominal hardness, shore "A"	D2240-91	50-65	50-65	80-85	80-85
Tolerance on nominal hardness		±5	±5	±5	±5
Minimum ultimate tensile	D412-92	2,000 psi	14 MPa	1,200 psi	8 MPa
Minimum ultimate elongation*	D412-92	300%	300%	125%	125%
Minimum aging†	D572-88‡	60%	60%	—	—
Maximum compression set	D395-89 Method B	20%	20%	—	—
Resistance to surface ozone cracking	D1149-91§	No cracking		—	—

*Of original length.

†Of original values of tensile and ultimate elongation.

‡Oxygen pressure method, after 96 hr at 70°C ±1° at 300 psi ±10 (2,068 kPa ±69).

§After a minimum of 25-hr exposure in 50-pphm ozone concentration at 104°F (40°C) on a loop-mounted gasket with approximately 20 percent elongation at outer surface.