

Performance parameters of NBR for SF₆ gas seal

NO.	Item		Index	Test method			
				GB	ISO	ASTM	DIN
1	Color		Black	/	/	/	/
2	Shore hardness, ShA		73±5	GB/T531.1	7619-1	D2240	53505
3	Brittleness temperature, °C		≤-30 or ≤-60	GB/T1682	812	D2137	53546
4	Tensile strength, MPa		≥10.0	GB/T528	37	D412	53504
5	Elongation at failure, %		≥150				
6	Tear strength, kN/m		≥25.0	GB/T529	34	D624B	53506
7☆	Hot air compression set	Compression 25%, 125°C, 24h, %	≤20.0	GB/T7759.1	815-1	D395	53517
		Compression 25%, 100°C, 72h, %	≤20.0				
8	Hot air aging (100°C, 72h)	Hardness change, degree	0 ~ +10	GB/T3512	188	D573	53508
		Change rate of tensile strength, %	≥-20				
		Change rate of elongation at failure, %	≥-30				
9	Ozone resistance static stretching cracking	Stretch 20%, 16h, 40°C, Ozone concentration 50×10 ⁻⁸	No creak	GB/T7762	1431-1B	D1149	53509