HIGH-TRANSPARENCY FUMED SILICONE RUBBER

Characteristics

- Compliance with FDA and LFGB
- High grade of transparency and excellent physical properties
- High tear strength (the tear strength of high-hardness silicone can be reached to 40KN/M)
- Yellowing resistance and good processability
- The high-hardness silicone can have

Main Applications

- Food contact molded silicone rubber products with extremely high requirement for transparency

Typical Data

Properties		Product Data						Test Method
		NE-9430	NE-9440	NE-9450	NE-9460	NE-9470	NE-9480	
Appearance		Transparent,no extraneous matter.						Visual Inspection
Density, g/cm³		1.06 ~ 1.10	1.09 ~ 1.15	1.12 ~ 1.18	1.14 ~ 1.20	1.17 ~ 1.23	1.18 ~ 1.25	ASTM D792
Curing	Hardness, ShoreA	32±2	40±2	50±2	60±2	70±2	80±2	ASTM D2240
	Tensile Strength, MPa ≥	8.0	9.0				8.0	ASTM D412
	Elongation at Break,% ≥	700	600	500	400	300	200	ASTM D412
	Tension Set, % ≤	8						ASTM D412
	Tear Strength, Die C kN/m ≥	18	35	40			20	ASTM D624
Post-curing	Hardness, ShoreA	33±2	45±2	55±2	65±2	75±2	83±2	ASTM D2240
	Tensile Strength, MPa ≥	7.0	8.0	8.5		8.0	7.5	ASTM D412
	Elongation at Break,% ≥	650	500	450	350	250	150	ASTM D412
	Tear Strength, Die C kN/m ≥	12	20	25			19	ASTM D624
Compression Set, 180℃*22h ≤		55	45	50		45	40	ASTM D395
Rebound Resilience, % ≥		50	45			40	35	/
Volume Resistivity, Ω·cm ≥		1×10^{15}						IEC 60093
Dielectric Strength, kV/mm ≥		20						IEC 60243
First-order linear shrinkage, %		3.2 ~ 3.7	3.0 ~ 3.6	2.9 ~ 3.4	2.8 ~ 3.4	2.6 ~ 3.2	2.4 ~ 3.0	/

- Physical data in the above table is for reference only.
- Curing condition: 175℃* 5Min.Post-curing condition:200℃* 4h.
- Ratio of curing agent liquid 2,5-Dimethyl-2,5-di(tert-butylperoxy) hexane: 0.65%.
- The supplied test report is obtained by the Quality Inspection Department with the curing conditions and testing method of the company; due to the difference of curing conditions and testing method, we can't guarantee that both parties obtain the same testing result, and we suggest that users should use the test data obtained under their own testing conditions as the reference for service performance. All the above performance data and application recommendations are only a reference for use on the service performance of product, instead of a guarantee on the effectiveness or general applicability of our products under a certain application.