ADDITION-CURING SILICONE RUBBER

Characteristics

- Compliance with FDA and LFGB
- Solid silicone rubber cured with addition of platinum as the catalyst
- Cured at a moderate temperature of 120℃, without any off-flavor and with high thermal utilization rate.
- The products made from them have higher tear strength than the like silicone products cured with peroxide.

Main Applications

- NE-01 series with precipitated silica are used to manufacture molded food contact silicone rubber products.
- NE-09 series with fumed silica are applicable to molding and extrusion process, and used to manufacture food contact silicone rubber products and transparent silicone tubes.

Typical Data

Properties	Product Data						Test Method
	NE-0130	NE-0140	NE-0150	NE-0160	NE-0170	NE-0180	
Appearance	Milk-white, translucent, no obvious extraneous matter.						Visual Inspection
Density, g/cm³	1.06 ~ 1.10	1.10 ~ 1.15	1.13 ~ 1.18	1.15 ~ 1.20	1.18 ~ 1.23	1.20 ~ 1.25	GB/T 533-2008
Hardness, Shore A	30±3	40±3	50±3	60±3	70±3	80±3	GB/T 531.1-2008
Tensile Strength, MPa ≥	7.0	7.5	8.5	8.0		7.0	GB/T 528-2009
Elongation at Break, % ≥	600	500	400		300	200	
Tear Strength, Die C kN/m ≥	15	19	20		18	15	GB/T 529-2008
Resilience, % ≥	65	55	50		45	35	GB/T 1681-2009

Properties	Product Data						Test Method
	NE-0930	NE-0940	NE-0950	NE-0960	NE-0970	NE-0980	
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	GB/T 533-2008
Hardness, Shore A	30±3	40±3	50±3	60±3	70±3	80±3	GB/T 531.1-2008
Tensile Strength, MPa ≥	8.0		8.5		8.0		GB/T 528-2009
Elongation at Break, % ≥	700	600	500	400	300	200	
Tear Strength, Die C kN/m ≥	15	20	25			20	GB/T 529-2008
Resilience, % ≥	55	45			40	35	GB/T 1681-2009

- Physical data in the above table is for reference only.
- Curing condition: 120℃ *5 min
- Ratio of curing agent : platinum vulcanizator, (0.4~0.6)% added for component A, (0.8~2.5)% added for component B.
- 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.