

FLAME RETARDANT SILICONE RUBBER



+ Characteristics

- Good physical, mechanical and electrical properties
- Superior flame retardancy and self-extinguishing property
- The flame retardancy of 3mm test piece can reach the class FV-0 stated in the national standard GB/T10707-2008
- Compliance with the requirements of ROHS

+ Applications

- They are applicable to manufacturing of electronic and electric products with flame retardant and insulativity, such as flame retardant gaskets, flame retardant seal rings and wire sheaths for cold cathode fluorescent lamps.

+ Typical Data

Properties	Product Data						Test Method
	NE-Z130	NE-Z140	NE-Z150	NE-Z160	NE-Z170	NE-Z180	
Appearance	White, no obvious extraneous matter.						Visual Inspection
Density, g/cm ³	1.32 ~ 1.38	1.37 ~ 1.43	1.40 ~ 1.46	1.42 ~ 1.48	1.45 ~ 1.51	1.47 ~ 1.53	ASTM D792
Hardness, Shore A	32±2	40±3	50±3	60±3	70±3	78±3	ASTM D2240
Tensile Strength, MPa ≥	3.5	4.5	6.0		5.5		ASTM D412
Elongation at Break, % ≥	400		330	280	200	170	
Tension Set, % ≤	6	8	7		6	5	
Tear Strength, Die C kN/m ≥	12	13	15			13	ASTM D624
Flame Retardancy, 3mm	FV-0						IEC 60695-11-10

Properties	Product Data				Test Method
	NE-Z250	NE-Z260	NE-Z270	NE-Z280	
Appearance	White, no obvious extraneous matter.				Visual Inspection
Density, g/cm ³	1.40 ~ 1.46	1.42 ~ 1.48	1.45 ~ 1.51	1.47 ~ 1.53	GB/T 533-2008
Hardness, Shore A	50±3	60±3	70±3	80±3	GB/T 531.1-2008
Tensile Strength, MPa ≥	6.0		5.5	4.5	GB/T 528-2009
Elongation at Break, % ≥	330	280	220	180	
Tension Set, % ≤	12		10		
Tear Strength, Die C kN/m ≥	15			13	GB/T 529-2008
Flame Retardancy, 3mm	FV-0				GB/T 10707-2008

Properties	Product Data				Test Method
	NE-Z141	NE-Z151	NE-Z161	NE-Z171	
Appearance	White, no obvious extraneous matter.				Visual Inspection
Density, g/cm ³	1.34 ~ 1.40	1.38 ~ 1.44	1.40 ~ 1.46	1.44 ~ 1.50	GB/T 533-2008
Hardness, Shore A	40±3	50±3	60±3	70±3	GB/T 531.1-2008
Tensile Strength, MPa ≥	5.0	6.0		5.5	GB/T 528-2009
Elongation at Break, % ≥	400	350	300	220	
Tension Set, % ≤	8	7		6	
Tear Strength, Die C kN/m ≥	13	15		13	GB/T 529-2008
Flame Retardancy , 3mm	FV-0				GB/T 10707-2008

Properties	Product Data					Test Method
	NE-Z540	NE-Z550	NE-Z560	NE-Z570	NE-Z580	
Appearance	White, no obvious extraneous matter.					Visual Inspection
Density, g/cm ³	1.37 ~ 1.43	1.40 ~ 1.46	1.42 ~ 1.48	1.45 ~ 1.51	1.47 ~ 1.53	GB/T 533-2008
Hardness, Shore A	40±3	50±3	60±3	70±3	78±3	GB/T 531.1-2008
Tensile Strength, MPa ≥	4.0	5.0				GB/T 528-2009
Elongation at Break, % ≥	350	300	250	200	150	
Tension Set, % ≤	8	7		6	5	
Tear Strength, Die C kN/m ≥	12	14			12	GB/T 529-2008
Flame Retardancy , 3mm	FV-0					GB/T 10707-2008

- Physical data in the above table is for reference only.
- Curing condition: 175°C* 5Min.
- Ratio of curing agent liquid 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane: 1.0%.
- 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.