

Product Description: 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
- Complies 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
	MS-Z130	MS--Z140	MS--Z150	MS-Z160	MS-Z170	MS-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
	MS-Z141	MS-Z151	MS-Z161	MS-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	ASTM D792
Hardness, Shore A	40±3	50±3	60±3	70±3	ASTM D2240
Tensile Strength, MPa ≥	5.0	6.0		5.5	ASTM D412
Elongation at Break, % ≥	400	350	300	220	
Tension Set, % ≤	8	7		6	
Tear Strength, Die C kN/m ≥	13	15		13	ASTM D624
Flame Retardancy , 3mm	FV-0				IEC 60695-11-10

Properties	Product Data				Test Method
	MS-Z250	MS-Z260	MS-Z270	MS-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	ASTM D792
Hardness, Shore A	50±3	60±3	70±3	80±3	ASTM D2240
Tensile Strength, MPa ≥	6.0		5.5	4.5	ASTM D412
Elongation at Break, % ≥	330	280	200	180	
Tension Set, % ≤	12		10		
Tear Strength, Die C kN/m ≥	15			13	ASTM D624
Flame Retardancy, 3mm	FV-0				IEC 60695-11-10

Properties	Product Data					Test Method
	MS-Z540	MS-Z550	MS-Z560	MS-Z570	MS-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	ASTM D792
Hardness, Shore A	40±3	50±3	60±3	70±3	78±3	ASTM D2240
Tensile Strength, MPa ≥	4.0	5.0				ASTM D412
Elongation at Break, % ≥	350	300	250	200	150	
Tension Set, % ≤	8	7		6	5	
Tear Strength, Die C kN/m ≥	12	14			12	ASTM D624
Flame Retardancy, 3mm	FV-0					IEC 60695-11-10

Properties	index		standard test
	MS-Z662	MS-Z663	
Appearance	Transparent, obvious mechanical impurities		Visual inspection
Density, g/cm ³	1.16-1.20		GB/T 533-2008
Hardness, Shore A	60±3	66±5	GB/T 531.1-2008
Tensile strength, MPa≥	9.0		GB/T 528-2009
Elongation at break, %≥	500	400	GB/T 528-2009
Tear strength type B, kN/m≥	25	30	GB/T 529-2008
Ageing test 200°C *240h	Tensile strength, MPa≥	7.0	GB/T 528-2009
	Elongation at break, %≥	200	
Flame retardant properties	Oxygen index, %, ≥	28	ASTM D2863
	Flammability rating	3mm, FV-1	GB/T 10707-2008

- Physical data in the above table is for reference only.
- Vulcanization 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.