

VSR70

Steam Resistant Silicone Rubber

General Information

VSR70 is a peroxide curing high consistency silicone rubber whose vulcanizates possess excellent resistance to hot air, particularly after addition of heat stabilizer. The vulcanizates show good tear resistance, low compression set and are highly elastic.

Postcured parts can be used for food contact applications and are suitable for use under the Recommendation "XV. Silicones" of the BfR and FDA § 177.2600 under observance of any given limitations on extractable and volatile substances.

Applications

- Dairy & Food Applications
- General Automotive Parts
- Household Applications
- Moulded Parts
- Profiles and Tubing

Properties

Silicone Rubber Products have an excellent resistance to:

- Food-contact
- Heat resistant
- Low compression set

Mechanical Properties

Cure conditions: 0.7% AUX Crosslinker C1 (Dicumylperoxide); 15 min / 165 °C in press, post-cured 4h / 200 °C.

Property	Condition	Value	Method
Appearance	-	transparent	-
Hardness (Shore A)	-	70	DIN ISO 48-4
Density	-	1.18 g/cm ³	DIN EN ISO 1183-1 A
Tensile Strength	-	10.0 N/mm ²	ISO 37 type 1
Elongation at Break	-	380 %	ISO 37 type 1
Tear Strength	-	24 N/mm	ASTM D 624 B
Compression Set ⁽¹⁾	22 h @ 175 °C	10%	DIN ISO 815-1 type B method A
Rebound Resilience	-	53%	ISO 4662

⁽¹⁾ post-cured 4 h / 200 °C

These figures are only intended as a guide and should not be used in preparing specifications.

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Heat Resistance

Cure conditions: 0.7 % AUX Crosslinker C1 (Dicumulperoxide), 15 min / 165 °C in press, post-cured 4 h / 200 °C

heat stabilised up to 250 °C with 1.5 % AUX Stabilizer H3

Heat stabilised up to 300 °C with 1.5 % AUX Stabilizer H3 and 2.0 % AUX Stabilizer H6

Property	After heat aging 168 h / 250 °C	After heat aging 1000 h / 250 °C	After heat aging 168 h / 300 °C	Method
Hardness (Shore A)	71	81	90	DIN ISO 48-4
Tensile Strength	5.1 N/mm ²	5.2 N/mm ²	5.1 N/mm ²	ISO 37
Elongation at break	240 %	120 %	60 %	ISO 37

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