

VHTS50-70

High Tear Strength Extrusion Grade Silicone Rubber

General Information

A high tear strength silicone compound with very good mechanical properties. Special features include heat stability inside a wide temperature range. This compound has good flexibility and high transparency. It is easily pigmented to a variety of colours.

Material Compliances

- EC 1395/2004
- FDA CFR 177.2600

A full list of regulatory product information (RPI) is available on request.

Typical Applications

- Dairy & Food Applications
- E-Mobility Cables for EV/HEV
- Exhaust-Pipe Suspensions
- General Automotive Parts
- Ignition & Battery Cables
- Profiles and Tubing
- Sanitary
- Vibration Damping

Technical Data

Cure conditions: 1.5% (50% paste of bis (2,4-dichlorobenzoyl)-peroxide in silicone fluid), 10 min / 135°C in press, post-cured 4h / 200°C.

Property	Unit	Value			Method
		VHTS50	VHTS60	VHTS70	
Appearance	-	Transparent	Transparent	Transparent	-
Temperature Range	°C	55 to +180	-55 to +180	55 to +180	-
Hardness	Shore A	52	62	72	DIN ISO 48-4
Density	g/cm ³	1.15	1.17	1.19	DIN EN ISO 1183-1 A
Tensile Strength	N/mm ²	10.0	11.0	10.0	ISO 37 type 1
Elongation at break	%	600	660	570	ISO 27 type 1
Tear strength	N/mm	39	43	45	ASTM D 624 B
Compression set ⁽¹⁾ (22h @ 175°C)	%	31	25	38	DIN ISO 815-1 type B method A
Rebound resilience	%	48	46	47	ISO 4662

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

¹post-cured 4h / 200°C. Size tolerance to ISO 3302-1: 2014.

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