

VTHT20-80

High Temperature Silicone Rubber

General Information

A high temperature rated compound with good mechanical properties. This compound has a natural off-white colour and accepts limited pigments, most commonly red oxide or grey.

Material compliance

- FDA compliant to 21 CFR 177.2600

Environmental Resistance

Silicone Rubber products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet Light
- Cosmic radiation
- Ionising radiation
- Corona Discharge
- Weathering in general

Material Properties

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	Units	Typical Value							Test Method
		VTHT20	VTHT30	VTHT40	VTHT50	VTHT60	VTHT70	VTHT80	
Appearance	-	Off-White							-
Temperature Range	°C	-50 to +300 (max)							-
Density	g/cm ³	1.11	1.10	1.12	1.15	1.15	1.18	1.20	ISO 1183-1 A
Hardness	° Shore A	24	32	42	52	61	70	79	DIN 53505
Tensile strength	N/mm ²	9.0	9.0	10.0	11.0	11.0	11.0	10.0	DIN 53501 S1 / ISO 27
Elongation at break	%	920	720	580	520	440	440	420	DIN 53504 S 1
Tear strength	N/mm	26	23	23	25	24	26	26	ASTM D 624 B
Rebound Resilience	%	42	52	56	56	57	53	53	DIN 53512
Compression Set	%	33	36	36	34	31	40	57	DIN ISO815-B (22hrs at 175°C)

These figures are only intended as a guide and should not be used in preparing specifications. Size tolerance to ISO 3302-1: 2014.

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