

VGP20-80HST

Heat Stabilised Silicone Rubber

General Information

A general-purpose compound with good heat stability within an extended temperature range. This compound is naturally translucent and easily pigmented.

Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

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

Applications

- Automotive
- Construction
- Industrial
- Domestic and Commercial
- Energy
- Insulation
- Electronics
- Heating and Ventilation (HVAC)
- Lighting

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
		VGP20HST	VGP30HST	VGP40HST	VGP50HST	VGP60HST	VGP70HST	VGP80HST	
Appearance	-	Translucent							-
Temperature Range	°C	-50 to +260 (max)							
Density at °20C	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	g/cm ³	9.0	9.0	10.0	11.0	11.0	11.0	10.0	DIN 53504 D1 / ISO 37
Elongation at Break	%	920	720	580	520	440	440	420	DIN 53504 S 1
Tear Strength	N/mm	26	23	23	25	24	36	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 @ 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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