COLD SHRINK TUBING

SILICONE

another quality Radiform® product

- Submersible Pump Cable Jointing
- Automotive Applications
- Outdoor Terminations
- Cable Sheath Repairs
- No Tools Required
- High Shrink Ratio
- Easy Installation
- UV Resistant

- Rated Insulation 1000VAC
- Temperature -40°C to 105°C

Item	Unit	Liquid Silicon Rubber	Test Method
Tensile Strength ≥	MPa	4	ISO37:2005
Elongation ≥	%	300	ISO37:2005
Hardness (Shore A) ≤		50	ISO7619:1986
Tear Against ≥	N/mm	20	ISO34:1-2004
Dielectric Strength ≥	KV/mm	20	ASTM D149-97a
Volume Resistivity ≥	Ωm	1012	
Dielectric Constant (50Hz)		2.8~3.5	ASTM D150:1998
Anti-tracking ≥		1A3.5	IEC60587:1984
Flexibility Modulus ≥	MPa	0.9~1	

Part Number	Item Description	ID Prior	ID Applied	L App +5mm	Applied Wall	Cord Thickness
HTCS27/9x203	27/9 - 203mm	27.6mm	9mm	203mm	2.5mm	1.3mm
HTCS40/12x152	40/12 - 152mm	36.4mm	12mm	152mm	2.5mm	1.3mm
HTCS40/12x229	40/12 - 229mm	36.4mm	12mm	229mm	2.5mm	1.3mm
HTCS40/12x279	40/12 - 279mm	36.4mm	12mm	279mm	2.5mm	1.3mm
HTCS40/12x305	40/12 - 305mm	36.4mm	12mm	305mm	2.5mm	1.3mm
HTCS40/12x406	40/12 - 406mm	36.4mm	12mm	406mm	2.5mm	1.3mm
HTCS56/24x152	56/24 - 152mm	56.0mm	24mm	152mm	2.2mm	2.0mm
HTCS56/24x228	56/24 - 228mm	56.0mm	24mm	228mm	2.2mm	2.0mm
HTCS56/24x305	56/24 - 305mm	56.0mm	24mm	305mm	2.2mm	2.0mm
HTCS56/24x457	56/24 - 457mm	56.0mm	24mm	457mm	2.2mm	2.0mm
HTCS73/27x152	73/27 - 152mm	75.0mm	27mm	152mm	3.0mm	2.0mm
HTCS73/27x203	73/27 - 203mm	75.0mm	27mm	203mm	3.0mm	2.0mm
HTCS73/27x228	73/27 - 228mm	75.0mm	27mm	228mm	3.0mm	2.0mm
HTCS73/27x305	73/27 - 305mm	75.0mm	27mm	305mm	3.0mm	2.0mm
HTCS73/27x457	73/27 - 457mm	75.0mm	27mm	457mm	3.0mm	2.0mm
HTCS100/41x228	100/41 - 228mm	101.0mm	41mm	228mm	3.0mm	2.0mm
HTCS100/41x457	100/41 - 457mm	101.0mm	41mm	457mm	3.0mm	2.0mm

RED2GO Pty Ltd - 27 River Road Bayswater Western Australia 6053

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- Flame Resistant
- High Elasticity
- Long Service Life
- Resistant to Weather
- UV Resistant
- Water Repellent
- Wide Temperature Range

Silicone Provides Long Lasting Hydrophobicity

Silicone exhibits very good long lasting water repellency, also known as Hydrophobicity. Silicone also has the ability to transfer water repelling effects to polutants, this Radiform® ıydrophobicity transfer

Water droplet on clean silicone

Water droplet on dirty silicone

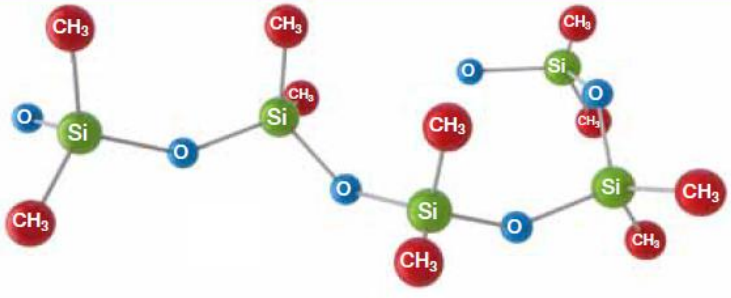
Cold Shrink Material Comparison

	SILICONE	EPDM
MATERIAL NAME (S)	Silicone	Ethylene Propylene Diene Monomer
MATERIAL CODES	ASTM D1418: MQ, VMQ, PVMQ ASTM D2000: FC, FE, GE	ASTM D1418: EPDM ASTM D2000: BA, CA, DA
SERVICE TEMPERATURE RANGE	-80F to 550F	-60F to 300F
RECOMMENDED USAGE	Flexibility, water compression set resistance, UV, ozone, static applications	Weather, ozone and water
DUROMETER RANGE	10-85 Shore A	25-95 Shore A
MOST COMMON APPLICATION	Electrical, fluid control, medical	Automotive, heating, ventilation and conditioning

Chemical Structure of a Linear Silicone Polymer

Excellent stability and high formation flexibility of silicones arise from the basic chemical structure. The high bonding energy of a silicone - oxygen backbone gives silicones higher stability than carbon back bones such as EPDM

Silicone Bond is 444 kJ/mol vs EPDM Bond of 348 kJ/mol
Shortwave sunlight (300nm) has an energy content of approximately 6.2 x 10 -22 kJ (=398 kJ/mol) and may cleave EPDM bonds, whereas Silicone bond remains stable



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