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TECHNICAL DATA SHEET
SOLID SILICONE SHEET 40, 50, 60 AND 70 SHORE

SPECIFICATIONS

ALL our colour range contain only ingredients that are listed by the American Food and Drug Administration (FDA) under the 21 CFR number 177-2600, BFR XV Empfehlung and colour bleed test according to BFR Empfehlung part B 11 & Directive EC 1935/2004.

Translucent, Blue, White, R/Oxide and Black have been approved by WRAS for use with potable water at temperatures up to 85c, the listing number is 1310541

The material is according to REACH and RoSH.

GENERAL CHARACTERISTICS FOR SILICONE RUBBER

Brittle Point	-80c(-112f)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2872 PART 1
Thermal Conductivity	0.24 w.tn⁻¹.k⁻¹	VDE 0304
Radiation Resistance	>10(5) grays(10to7 rads)	
Dielectric Strength	23 KV.mm⁻¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor @ 50c/s	3 x 10 to-4	VDE 0303
Volume Resistivity	3 x 10 to 15Ω cm	VDE 0303

ENVIRONMENTAL RESISTANCE

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionizing radiation and weathering in general.

Other grades of silicone rubber available are:

Cellular silicone products, high temperature grades, high tear grades, flame retardant grades, low combustion hazard grades, metal detectable grades, custom compounds.

SILICONE SHEET 60 SHORE

Property	Typical Values	Units Measured In
HARDNESS	60	SHORE A
compression set	10%	22 hrs @ 300 F
compression set	13%	24 hrs @ 150c
TEAR STRENGTH	14.2	N/mm
ELONGATION @ BREAK	340	%
TENSILE STRENGTH	1146	PSI
DENSITY	1.2	SG
TEMPERATURE	-60 + 230	CENTIGRADE

SILICONE SHEET 50 SHORE

Property	Typical Values	Units Measured In
Hardness	50	SHORE A
Compression Set	16%	22hrs @ 300 F
Compression Set	15%	24 hrs @ 150 C
Tear Strength	12.8	N/mm
Elongation @ Break	370	%
Tensile Strength	8.00	MPa
TEMPERATURE	-60 + 230	CENTIGRADE

SILICONE SHEET 70 SHORE

Property	Typical Values	Units Measured In
HARDNESS	70	SHORE A
compression set	9%	24 hrs @ 150c
compression set	10%	22 hrs @ 300 F
TEAR STRENGTH	14.4	N/mm
ELONGATION @ BREAK	300	%
TENSILE STRENGTH	1150	PSI
TEMPERATURE	-60 + 230	CENTIGRADE

SILICONE SHEET 40 SHORE

Property	Typical Values	Units Measured In
HARDNESS	40	SHORE A
compression set	25%	24 hrs @ 150c
compression set	22%	22 hrs @ 300 F
TEAR STRENGTH	10.2	N/mm
ELONGATION @ BREAK	450	%
TENSILE STRENGTH	1015	PSI
TEMPERATURE	-60 + 230	CENTIGRADE