TALC POWDERED COMPACT SILICONE SHEETING:

PLS-WH/TR/RD/BK/BL-601200-XXX-S

FOOD QUALITY SILICONE RUBBER SHEETING 60º SHORE 'A'

Description

Slightly talc powdered Compact Silicone Rubber sheet in a wide range of thicknesses and different colours.

Standard Colours

Our standard rolls can be served in translucent, white, red brick, blue and black.

Common Applications and Industrial Sectors

Seals, gaskets, joints and strips used in food, drink and pharmaceutical applications.

Typical demand comes from industries in Automotive, Domestic and Commercial Catering, Construction, Electronics, Energy, Food and Beverage, Heating and Ventilation (HVAC), goods manufacturing, Lighting and Marine sector.

Aplicable Temperature Range

Our silicone sheets can withstand a working temperature from -60ºC (-76ºF) to 230ºC (-446ºF). And up to 250ºC (482ºF) intermittent peaks.

Compliance of Regulations

All our silicone sheets, no matter what colour, have been tested to be in compliance with different regulatory rules around the world. Being the American Food and Drugs Administration (FDA) 21 CFR 177-2600, BFR XV Empfehlung and colour bleed test according to BFR Empfehlung part B 11 & Directive EC 1935/2004 the most widely known and used.
Also as it's a growing concern in our nowadays industry these products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability tests and Automotive Standard PART 571FMVSS302.

Environment Resistance

Silicone rubber is known to have a great performance under outdoor or indoor environmental conditions. Resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionizing radiation and weathering in general is excellent.

Format Presentation

Sold as continuous rolls or used for cut sheets and gaskets. Sheeting supplied in Rolls or lengths with a standard width of 1200mm and slightly powdered with talc to prevent silicone to stick to itself.

COMPACT SILICONE GENERAL PROPERTIES

Property	Test Method/Standard	Units	Typical value
Brittle Point	ASTM D746	°C/°F	-80/-112
Limiting Oxygen Index	BS 2782 Part 1	%	24.0
Thermal Conductivity	VDE 0304	$W.m^{-1}.K^{-1}$	0.24
Radiation Resistance		Grays (10^7 Rads)	$>10^5$
Dielectric Strength	VDE 0303	$kV.mm^{-1}$	23
Dielectric Constant	VDE 0303		2.9
Dissipation Factor	VDE 0303		3×10^{-4}
Volume Resistivity	VDE 0303	Ω.cm	$3x10^{15}$

PLSXX40 Mechanical Properties:

Property	Test Method	Units	Typical value
Hardness	ASTM D2240 DIN ISO 7619-1	Shore A	62
Tensile strength	ISO 37 type 1 ASTM D412 DIE C DIN 53504 type S1	MPa psi	7.9 1146
Elongation at break	ISO 37 type 1 ASTM D412 DIE C DIN 53504 type S1	%	340
Tear Strength	ASTM D624 die B	N/mm lb./in.	14.2 81.1
Compression set: 24 hours @ 150ºC	BS 903 pt A6 type B DIN/ISO 815 type B	%	13
Compression set: 22 hours @ 300ºF	ASTM D395 method B Type 2	%	10