FIPA - Vacuum Technology

Vacuum cup materials and their characteristics

Material / Use	NBR	NR	Silicone	Polyurethane (Vulkollan)	FKM	CR	EPDM	SBR	HNBR	Vinyl	Tepuflex	TPU
All-purpose use	++++	++++	+++	+++	+	+++	+	+	++	++	++	++
Temperature range in °C	-30 +80	-40 +80	-60 +200	-25 +80	-20 +200	-40 +100	-40 +130	-40 +80	-40 +160	-20 +80	0 +70	0 +80
Temperature range in °F	-22 +176	-40 +176	-76 +176	-13 +176	-4 +392	-40 +212	-40 +266	-40 +176	-40 +320	-4 +176	32 158	32 176
Shore hardness	50-60	30-60	25-55	50-75	60	50-60	50	50	55	55-60	50	60
Ozone resistance	+	+	++++	+++	++++	+++	++++	+	++++	+	++++	++++
Wear	++	+++	+	+++	++	++	+	+++	+++	++++	+++	++++
Oil-grease-gasoline	++++	+	+	+++	++++	+	+	+	++++	+	+	++++
Rapeseed oil	++	+	+	++	++++	++	+	+	++	+	+	+
Acids	+	++	+	+	+++	+	+	+	+	+	+	+
Hot products	+	+	++++	+	++++	+	+++	+	++++	+	+	+
Hot products (free from silicone)	+	+	+	+	++++	+	+++	+	++++	+	+	+
Foodstuffs	+	++	++++	+	+	+	++	+	+	+	++++	+
Highly antimarking	++	++	+	++	++	+	++	++	++++	++	+++	++++

++++ = excellent; +++ = very good; ++ = good; + = adequate up to unsuitable

> Materials in principal NBR – natural rubber and silicone
> Depending on use, vacuum suction cups are subject to mechanical and chemical wear. The above data therefore are only approximate.
> Suction cups made of Vulkollan, Tepuflex and TPU are highly wear-resistant; their marking behavior is very good.
> Special-purpose suction cups with felt lining are highly antimarking; they may be used at temperatures up to 550° C (low holding force).
> Further questions will be answered by our Technical Sales Team - please call +49(0)89-962489-0.

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