SUCTION CUPS / Mark free flat Structure

FF20X







Features and Strengths

Excellent performance for very thin and light weight products Mark free

Examples of use

Semiconductor, Display, Thin Film



I Recommended Lifting Force (Max.)

Madal	Volume	Liftii	ng Force (Kg) - Perpendid	orce (Kg) - Perpendicular	
Model	(cm³)	- 20 kPa	- 60 kPa	- 90 kPa	
FF20X	0.12	0.35	0.36	0.50	

[※] The lifting force above does not include safety factor

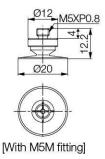
| Material Specifications

Material	Hardness Shore (°)	(°) Color Tem	
NBR	60	Black	-20~110
Silicone	55	Red	-70~200
White Silicone	55	Translucent White	-70~200
White Silicone (FDA)	55	Translucent White	-70~200
High temp. Silicone	50	Blue	-70~280
Conductive Silicone	70	Smoky Black	-45~90
Urethane	60	Dark Green	0~100
Mark Free 75		Black	-10~100

| Material Resistance

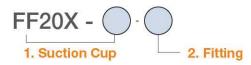
Description	NBR	Silicone	White Silicone	High temp. Silicone	Conductive Silicone	Urethane	Mark Free
Wear Resistance	Excellent	Good	Good	Good	Good	Excellent	Good
Oil	Excellent	Poor	Poor	Poor	Poor	Excellent	Excellent
Weather / Ozone	Fair	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohol	Good	Good	Good	Good	Good	Fair	Good
Acid	Fair	Poor	Poor	Poor	Poor	Poor	Excellent

I Dimension [Unit:mm]





Build an Ordering No.

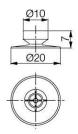


1. Suction cup	Description	Symbol		
	Mark free and Flat structure suction cup, 20mm diameter, Nitrile (NBR)	FF20X-N		
	Mark free and Flat structure suction cup, 20mm diameter, Silicone Mark free and Flat structure suction cup, 20mm diameter, White silicone Mark free and Flat structure suction cup, 20mm diameter, White silicone (FDA)			
	Mark free and Flat structure suction cup, 20mm diameter, High temperature silicone Mark free and Flat structure suction cup, 20mm diameter, Conductive silicone			
Mark free and Flat structure suction cup, 20mm diameter, Urethane		FF20X-U		
	Mark free and Flat structure suction cup, 20mm diameter, Mark free	FF20X-A		
2. Fitting	Description	Symbol		
	Fitting, M5 male	M5M		

Spare Parts - Rubber Parts

art No. Description		Weight (g)	Color
FF20X-N	Mark free and Flat structure suction cup, 20mm diameter, Nitrile (NBR)	0.5	Black
FF20X-S	Mark free and Flat structure suction cup, 20mm diameter, Silicone	0.47	Red
FF20X-WS	20X-WS Mark free and Flat structure suction cup, 20mm diameter, White silicone 0.4		Translucent White
FF20X-WS (FDA)	Mark free and Flat structure suction cup, 20mm diameter, White silicone (FDA) 0.48		Translucent White
FF20X-HS	Mark free and Flat structure suction cup, 20mm diameter, High temperature silicone 0.5		Blue
FF20X-CS	F20X-CS Mark free and Flat structure suction cup, 20mm diameter, Conductive silicone		Smoky Black
FF20X-U	20X-U Mark free and Flat structure suction cup, 20mm diameter, Urethane		Dark Green
FF20X-A	Mark free and Flat structure suction cup, 20mm diameter, Mark free		Black

Dimension [Unit:mm]



Spare Parts - Fittings

Part No. (Code No.)	Fitting size	Description	Weight (g)
350 007 0103	M5M	M5 male	2.41