



SM14201 Black Silicone Non-Toxic General Purpose Grade 45° Shore
 FDA 21 CFR No: 177 – 2600 & EU1935/2004 regulations and USO Class V1 Compliant

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	1.20 ± 0.05	ASTM D297	1.20 ± 0.05
HARDNESS	DIN 53505	40 ± 5 SH A	ASTM D2240	40 ± 5 SH A
TENSILE STRENGTH (MIN)	DIN 53504	858 PSI	ASTM D412	60 KG/CM2
ELONGATION AT BREAK (MIN)	DIN 53504	200%	ASTM D412	200%
COMPRESSION SET (70° C/24 HRS/25% SET) (MAX)	DIN 53517	40%	ASTM D395 METHOD B	40%
TEAR RESISTANCE (ANGULAR) MIN	DIN 53515	112 LBS/INCH	ASTM D624	20 KG/CM
POLYMER CONTENT (%)		100		100
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 100 °C)			ASTM D573	
--- HARDNESS (PTS)		+ 3 (MAX)		+ 3 (MAX)
--- TENSILE STRENGTH (%)		+ 5 / - 5		+ 5 / - 5
--- ELONGATION AT BREAK (%)		+ 5 / - 5		+ 5 / - 5
VOLUME SWELL : AT 70° C FOR 72 HRS/IN			ASTM D 471	
IRM OIL NO.1		+ 5%		+ 5%
IRM OIL NO.2		+ 7%		+ 7%
IRM OIL NO.3		+ 25%		+ 25%
CHEMICAL RESISTANCE				
--- OZONE	DIN 53508	EXCELLENT	ASTM D 1149	EXCELLENT
--- DILUTE ACIDS AND BASES		EXCELLENT		EXCELLENT
--- CONCENTRATED ACIDS AND BASES		EXCELLENT		EXCELLENT
--- OILS		GOOD		GOOD
--- SOLVENTS		FAIR		FAIR
TEMPERATURE RANGE		-90 ° TO + 200° C		-90 ° TO + 200° C