



STOCKWELL ELASTOMERICS

MANUFACTURING SOLUTIONS THROUGH ENGINEERED MATERIALS

Comparison of Liquid Silicone Compounds for Injection Molded Gaskets and Sheets

For General Reference Only - Application Requirements Should Be Discussed Prior to Final Specification

Property*	Test Procedure	SE2010	SE2020	SE2030	SE2040	SE2050	SE2060	SE2070	SE2080
Appearance	WSTM 1279	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent
Specific Gravity, 25°C	WSTM 1154	1.08	1.11	1.11	1.14	1.14	1.14	1.11	1.17
Viscosity A/B, mPa-s	WSTM 3277	80,000/80,000	100,000/180,000	190,000/190,000	680,000/660,000	700,000/800,000	825,000/920,000	190,000/190,000	1,150,000/1,800,000
Hardness, Shore A	WSTM 1110	9	22	31	40	51	59	68	79
Modulus @ 100%, psi (MPa)	WSTM 1160	-	-	-	-	-	370 (2.6)	480 (3.3)	700 (4.8)
Tensile Strength, psi (MPa)	WSTM 1160	430 (3)	1150 (8)	1200 (8.3)	1380 (9.8)	1500 (10.8)	1550 (10.6)	1600 (11)	1300 (9)
Elongation, %	WSTM 1160	660	800	640	620	500	410	350	250
Tear Strength, ppi (kN/m)	WSTM 1160	45 (7.9)	145 (25)	130 (23)	175 (30.5)	200 (35)	180 (32)	180 (32)	150 (26)
Brittle Point, °C	ASTM D746	-73	-73	-73	-73	-73	-73	-	-73
Compression Set, % 22 hrs @ 177°C	WSTM 1114	-	-	-	-	-	-	27	-
Rebound resilience, %	DIN 53512	43	45	0.6	57	-	67	-	69
Dielectric strength (1-mm-sheet), kV/mm	DIN IEC 243-2	23	23	23	23	23	23	23	23
Volume Resistivity, Ω cm	DIN IEC 93	5 x 10 ¹⁵	5 x 10 ¹⁵	5 x 10 ¹⁵	5 x 10 ¹⁵	5 x 10 ¹⁵	5 x 10 ¹⁵	5 x 10 ¹⁵	5 x 10 ¹⁵
Dielectric constant at 50 Hz, ε _r	DIN VDE 0303	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
Dissipation Factor (50 Hz), tan δ	DIN VDE 0303	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴	2 x 10 ⁻⁴

*Properties obtained after mixing Part A and Part B in a ratio of 1:1; press cured 5 min/166°C. Post cured 4 hrs/200°C

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