



Material Specification Guide (Closed Cell Sponge Rubber)

Polymer	Neoprene/EPDM/SBR				EPDM/Blend			EPT Blend	100% Neoprene		EVA		Ensolite PVC/Nitrile		
Stock Number	SCE41B	SCE42B	SCE43B	SCE45B	RE41E	RE42E	RE43E	RE41EPT	SCE41NEO	SCE42NEO	2#EVA	4#EVA	IV1	IV2	IV3
Specifications															
ASTM -D-1056-67	SCE41	SCE42	SCE43	SCE45	RE41	RE42	RE43	RE41	SCE41	SCE42	RE41/42	RE42/43	SCE41	SCE42	SCE43
ASTM -D-1056-07	2A1	2A2	2A3	2A5	2A1	2A2	2A3	2A1	2C1	2C2	2A1/2A2	2A2/2A3	2C1	2C2	2B3
Mil-R-6130C Type + ASTM-D-6576	II-A	II-A	II-A	II-A	II-B	II-B	II-B	-----	II-A	II-A	-----	-----	11-B	11-A/B	11-A/B
Grade Condition	Soft	Soft-Med.	Medium	Firm	Soft	Soft-Med.	Medium	-----	Soft	Soft-Med.	-----	-----	Soft	Soft-Med.	Medium
Mil-C-3133C MIL STD 670B	SCE3 F2	SC73 F2	SCE11 F2	SCE20 F2	RE3 F2	RE7 F2	RE11 F2	RE3	SCE3 F1	SCE7 F1	-----	-----	SCE3	SCE7	SCE11
Flammability Specifications															
UL-94-HF1	Listed	Listed	Listed	-----	-----	-----	-----	-----	Pass	Pass	-----	-----	Listed	Listed	Listed
UL-94-HBF	Listed	Listed	Listed	-----	-----	-----	-----	-----	Pass	Pass	-----	-----	Pass	Pass	Pass
Mil-R-6130C	Pass	Pass	Pass	Pass	Pass	Pass	Pass	-----	Pass	Pass	-----	-----	Pass	Pass	Pass
FMVSS-302	Pass	Pass	Pass	Pass	Pass	Pass	Pass	-----	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Physical Properties															
25% Compression Deflection (PSI)	2-5	5-9	9-13	17-25	2-5	5-9	9-13	2-5	2-5	5-9	4-6	6-9	2-5	5-9	9-13
Density Approximate (PCF)	6+/-2	6+/-2	9+/-2	12+/-2	6+/-2	6+/-2	9+/-2	4+/-1	9+/-2	9+/-2	2+/--.5	4+/-1	3.0-5.5	5.5-7.50	7.0-9.5
Water Absorbton Max. Weight %	5	5	5	5	5	5	5	5	5	5	10	10	7	5	5
Temperature Range F	-40/+200	-40/+200	-40/+200	-40/+150	-70/+220	-70/+220	-70/+220	-40/+200	-40/+150	-40/+150	-110/+220	-110/+220	-40/+200	-40/+200	-40/+200
Temperature High Intermittent F	250	250	250	200	250	250	250	250	200	200	240	240	225	225	225
Ozone Resistance	Excellent	Excellent	Excellent	Fair	Excellent	Excellent	Excellent	Excellent	Fair	Fair	Excellent	Excellent	Fair	Fair	Fair
Tensile Strength (PSI)	75	100	100	150	80	80	100	50	80	90	60	100	40	35	35
Fuel B Max % Weight Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	<250	<250	n/a	n/a	<250	<250	<100
Elongation Typical Properties %	125	125	150	125	150	150	150	125	150	150	275	310	100	100	100
Durometer Shore 00 (Approx.)	40-50	45-55	55-65	65-75	40-50	45-55	55-65	37-47	45-55	50-60	-----	-----	30-45	50-60	60-70
Shrinkage 7 Days @ 158 F Max	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	3%	3%	3%
K Factor	0.30	0.30	0.38	-----	0.38	0.38	0.38	0.30	0.38	0.38	0.25	0.30	0.30	0.30	0.30