

# Anderson Development Company

Dial-a-Durometer using Andur M 9-5 AP cured with Curene 45 and Curene BA 1000

**This system is approvable for FDA applications involving dry food contact per 21 CFR 177.1680**

Curene 45 (Eq%)	100	90	80	70	60	50	40	20
Curene BA 1000 (Eq%)	0	10	20	30	40	50	60	80
Curene 45 (Wt%)	100.0	44.8	26.5	17.4	11.9	8.25	5.66	2.20
Curene BA 1000 (EW=500) (WT%)	0.0	55.2	73.5	82.6	88.1	91.75	94.34	97.80
Blend Equivalent Weight	45	90.4	135.9	181.5	227.0	272.6	318.0	409.0
Stoichiometry	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Appearance	Opaque	Opaque	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent
Hardness, Shore	93-97A	92A	87A	84A	80A	76A	70A	57A
Bashore Rebound, %	25	24	23	25	27	32	36	70
Tensile Strength, psi	7000	7250	7350	6850	4700	5550	4800	1900
100% Modulus, psi	1550	1340	970	760	575	510	400	210
300% Modulus, psi	3100	2580	1940	1460	1100	880	695	325
Elongation, %	560	535	530	520	480	520	540	580
Die C Tear (D624), pli	700	520	460	400	350	310	260	160
Split Tear (D1938), pli: AVG.	475	270	160	115	90	80	60	25
Compression Set, 22hrs@70C	32	34	34	34	34	34	29	13
Cured Density, g/cm <sup>3</sup>	1.27	1.25	1.24	1.23	1.22	1.22	1.22	1.1
Compression Deflection, psi								
5%	270*	270	190	160	120	50	40	40
10%	600*	590	420	340	260	150	95	85
15%	930*	900	650	520	400	270	170	135
25%	1230*	1400	1050	850	660	500	350	250
Compression Modulus, psi	6800*	6700	4700	3550	2700	2050	1200	900

\*0.98 stoic.