

# Anderson Development Company

Dial-a-Durometer using Andur BA-M 9-3 AP cured with Curene 45 and Curene BA 1000

**This system is approvable for FDA applications involving wet or dry food contact per 21 CFR 177.2600**

Curene 45 (Eq%)	100	90	80	70	60	50	40	30
Curene BA 1000 (Eq%)	0	10	20	30	40	50	60	70
Curene 45 (Wt%)	100.0	44.8	26.5	17.4	11.9	8.25	5.66	3.72
Curene BA 1000 (EW=500) (WT%)	0.0	55.2	73.5	82.6	88.1	91.75	94.34	96.28
Blend Equivalent Weight	45	90.4	135.9	181.5	227.0	272.6	318.0	363.3
Stoichiometry	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Appearance	Opaque	Translucent	Translucent	Translucent	Translucent	Translucent	Translucent	Transparent
Hardness, Shore	93A	87	84	80	76	70	65	64
Bashore Rebound, %	50	50	53	54	57	61	64	67
Tensile Strength, psi	7200	5600	5200	5000	5700	5000	5600	4600
100% Modulus, psi	1075	900	800	660	520	450	370	290
300% Modulus, psi	2400	2050	1800	1470	1050	870	660	460
Elongation, %	570	470	450	450	500	490	510	550
Die C Tear (D624), pli	625	450	400	350	325	290	255	210
Split Tear (D1938), pli: AVG.	330	180	100	80	80	80	90	60
Compression Set, 22hrs@70C	21	24	24	24	24	24	22	19
Cured Density, g/cm <sup>3</sup>	1.2	1.19	1.19	1.19	1.19	1.18	1.17	1.17
Compression Deflection, psi								
5%	250*	155	120	115	85	70	60	50
10%	550*	385	330	275	210	175	140	110
15%	830*	605	530	440	340	285	225	185
25%	1270*	985	885	740	600	515	420	350
Compression Modulus, psi	6500*	5000	4300	3350	2500	2050	1600	1300

\*0.98 stoic.