

## Anderson Development Company

Dial-a-Durometer using Andur M 85 AP cured with Curene 45 and Curene PTMG 1000

**This system is approvable for FDA applications involving wet or dry food contact per 21 CFR 177.2600 & 21 CFR 177.1680**

Curene 45 (Eq%)	100	90	80	70	60	50	40
Curene PTMG 1000 (Eq%)	0	10	20	30	40	50	60
Curene 45 (Wt%)	100.0	44.8	26.5	17.4	11.9	8.25	5.66
Curene PTMG 1000 (EW=500) (WT%)	0.0	55.2	73.5	82.6	88.1	91.75	94.34
Blend Equivalent Weight	45	90.4	135.9	181.5	227.0	272.6	318.0
Stoichiometry	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Appearance	Opaque	Opaque	Translucent	Translucent	Translucent	Transparent	Transparent
Hardness, Shore (A)	85	81	73	69	65	63	62
Bashore Rebound, %	69	66	67	75	79	80	82
Tensile Strength, psi	5000	3500	3000	3100	1700	1300	600
100% Modulus, psi	825	665	460	380	325	270	255
300% Modulus, psi	1560	1320	910	735	610	480	435
Elongation, %	555	500	500	530	500	500	350
Die C Tear (D624), pli	430	325	280	250	220	200	150
Split Tear (D1938), pli: AVG.	60	33	32	27	25	20	12
Compression Set, 22hrs@70C	17	16	14	14	11	10	6
Cured Density, g/cm <sup>3</sup>	1.08	1.07	1.06	1.06	1.06	1.05	1.05
Compression Deflection, psi							
5%	130	130	90	70	60	50	45
10%	310	275	190	150	120	100	95
15%	490	430	300	230	190	160	150
25%	830	740	540	440	360	300	280
Compression Modulus, psi	3600	2900	2000	1550	1250	1050	950