Anderson Development Company

Dial-a-Durometer using Andur M 90 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%)	100.00	44.80	26.70	17.60	12.00	8.40	5.70
Curene PTMG 1000 (EW=500) (WT%)	0.00	55.20	73.30	82.40	88.00	91.60	94.30
Blend Equivalent Weight	45.0	90.3	134.7	179.5	224.5	269.1	314.1
Stoichiometry	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Appearance	Opaque	Opaque	Opaque	Opaque	Translucent	Translucent	Transparent
Hardness, Shore A	90	86	82	76	72	68	64
Bashore Rebound, %	68	67	68	69	70	79	79
Tensile Strength, psi	5200	4100	3000	1850	1900	1400	1350
100% Modulus, psi	1100	840	650	460	330	200	270
300% Modulus, psi	1860	1685	1400	1040	770	515	500
Elongation, %	560	465	420	400	450	460	480
Die C Tear (D624), pli	485	350	330	275	250	215	185
Split Tear (D1938), pli: AVG.	85	60	30	25	17	17	16
Compression Set, 22hrs@70C	17	17	14	14	11	9	5
Cured Density, g/cm^3	1.09	1.08	1.07	1.06	1.06	1.06	1.05
Compression Deflection, psi							
5%	170	160	120	90	70	60	45
10%	425	350	260	185	150	120	100
15%	670	540	400	290	230	190	155
25%	1050	910	710	530	440	360	300
Compression Modulus, psi	5450	3700	2700	1900	1550	1200	1000