

Anderson Development Company

Dial-a-Durometer using Andur M 95 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	44.80	26.70	17.60	12.00	8.40	5.70
Curene PTMG 1000 (EW=500) (WT%)	0	55.20	73.30	82.40	88.00	91.60	94.30
Blend Equivalent Weight	45	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	Translucent	Translucent	Translucent	Transparent
Hardness, Shore (A)	95	88	85	80	74	72	66
Bashore Rebound, %	60	62	64	66	71	72	77
Tensile Strength, psi	5800	4500	4000	3500	2700	2100	900
100% Modulus, psi	1270	825	745	600	470	250	195
300% Modulus, psi	2200	1670	1540	1250	960	680	490
Elongation, %	600	500	480	480	490	470	410
Die C Tear (D624), pli	600	485	410	340	290	245	190
Split Tear (D1938), pli: AVG.	180	75	50	40	30	25	20
Compression Set, 22hrs@70C	20	20	17	17	17	15	7
Cured Density, g/cm ³	1.1	1.09	1.09	1.07	1.06	1.06	1.06
Compression Deflection, psi							
5%	300	190	150	110	80	70	50
10%	675	420	325	240	170	140	110
15%	1000	650	510	370	260	220	170
25%	1600	1050	860	670	480	420	320
Compression Modulus, psi	9000	4700	3400	2500	1700	1500	1100