

Anderson Development Company

Dial-a-Durometer (DAD) using Andur 80-5AP and Andur 1-75 DP cured with MBOCA

Andur 80-5 AP (wt %)	100	90	80	70	60	50	40	30	20	10	0
Andur 1-75 DP (wt %)	0	10	20	30	40	50	60	70	80	90	100
% NCO (calc)	3.20	3.73	4.26	4.79	5.32	5.85	6.38	6.91	7.44	7.97	8.50
Stoichiometry (actual)	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Potlife (minutes)	6.5	6.0	5.5	5.0	4.5	4.25	4.0	3.75	3.5	3.25	2.75
Demold Time (minutes)	35	35	30	30	30	20	20	15	15	10	10
Hardness, Shore	82A	86A	90A	93A (37D)	95A (44D)	97A (51D)	56D	61D	65D	70D	75D
Elongation, %	480	390	360	370	370	320	300	290	280	260	240
Tensile Strength, psi	5300	5500	6000	6300	6500	6600	6700	6900	7500	8000	8300
100% Modulus, psi	800	1000	1200	1400	1800	2200	2800	3300	3800	4500	5600
300% Modulus, psi	1400	1900	2500	3000	3800	5000	****	****	****	****	****
Die C Tear, pli	270	290	330	370	410	440	510	590	700	820	1100
Split Tear, pli	37	45	58	78	92	100	120	140	170	190	240
Compression Set											
22 hrs @ 70 C	14	17	19	20	22	25	27	35	****	****	****
Compress. Deflect.											
@5%	130	150	210	250	300	340	440	530	620	690	1000
@10%	290	370	460	570	720	920	1100	1500	1900	2400	3500
@15%	480	590	730	900	1100	1400	1900	2400	2900	3700	5500
@20%	600	740	920	1100	1400	1800	2400	3000	3600	4600	6800