

Anderson Development Company

Dial-a-Durometer using Andur M 8-5 AP cured with Curene 45 and Curene BA 1000

This system is approvable for FDA applications involving dry food contact per 21 CFR 177.1680

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	Opaque	Translucent	Translucent	Translucent	Translucent	Transparent	Transparent
Hardness, Shore	83-87A	77A	72A	72A	67A	63A	56A	56A
Bashore Rebound, %	39	41	43	47	51	50	55	57
Tensile Strength, psi	7150	6100	7000	6200	5500	4800	3850	3350
100% Modulus, psi	800	580	450	385	370	240	230	135
300% Modulus, psi	1660	1175	890	750	645	460	370	215
Elongation, %	680	650	680	640	630	640	650	710
Die C Tear (D624), pli	525	435	390	340	290	240	200	170
Split Tear (D1938), pli: AVG.	310	250	240	170	140	95	90	85
Compression Set, 22hrs@70C	24	tbd	tbd	30	33	32	25	tbd
Cured Density, g/cm ³	1.25	1.22	1.21	1.2	1.2	1.19	1.19	1.18
Compression Deflection, psi								
5%	140	105	90	90	70	55	35	30
10%	315	230	190	190	150	120	85	70
15%	490	356	300	300	235	200	140	110
25%	810	610	510	510	410	350	260	210
Compression Modulus, psi	3600	2450	1950	2000	1600	1360	970	770