

Anderson Development Company

Dial-a Durometer (DAD) using Andur 7 APLF and Andur 6 DPLF cured with Curene 107

| | | | | | | | | | | | |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|------|
| Andur 7 APLF(wt%) | 100 | 90 | 80 | 70 | 60 | 50 | 40 | 30 | 20 | 10 | 0 |
| Andur 6 DPLF (wt%) | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| % NCO (calc.) | 2.65 | 3.00 | 3.35 | 3.70 | 4.05 | 4.40 | 4.75 | 5.10 | 5.45 | 5.80 | 6.15 |
| Stoichiometry (actual) | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Hardness, Shore | 72A (22D) | 77A (25D) | 81A (27D) | 85A (29D) | 88A (31D) | 90A (34D) | 92A (38D) | 94A (43D) | 96A (48D) | 53D | 58D |
| Elongation, % | 640 | 600 | 560 | 530 | 510 | 490 | 470 | 450 | 440 | 430 | 420 |
| Tensile Strength, psi | 7200 | 7200 | 7300 | 7400 | 7500 | 7500 | 7500 | 7500 | 7400 | 7300 | 7300 |
| 100% Modulus, psi | 570 | 630 | 700 | 840 | 970 | 1100 | 1300 | 1600 | 1900 | 2200 | 2500 |
| 300% Modulus, psi | 1000 | 1100 | 1200 | 1400 | 1600 | 1800 | 2100 | 2500 | 3100 | 3800 | 4500 |
| Die C Tear, pli | 350 | 360 | 370 | 380 | 400 | 420 | 440 | 460 | 490 | 560 | 810 |
| Split Tear, pli | 120 | 120 | 130 | 130 | 140 | 150 | 160 | 180 | 210 | 270 | 360 |
| Compression Set | | | | | | | | | | | |
| 22 hrs @ 70 C | 34 | 34 | 34 | 37 | 39 | 45 | 46 | 48 | 50 | 52 | 53 |
| Compress. Deflect. | | | | | | | | | | | |
| @5% | 60 | 70 | 90 | 110 | 140 | 180 | 210 | 240 | 270 | 320 | 370 |
| @10% | 130 | 160 | 200 | 270 | 340 | 430 | 450 | 630 | 720 | 920 | 1200 |
| @15% | 210 | 270 | 310 | 420 | 540 | 660 | 710 | 990 | 1200 | 1400 | 1700 |
| @20% | 300 | 370 | 420 | 570 | 710 | 860 | 940 | 1200 | 1500 | 1800 | 2200 |
| @25% | 380 | 480 | 540 | 710 | 880 | 1100 | 1200 | 1500 | 1800 | 2200 | 2600 |
| Bashore Rebound, % | 40 | 35 | 32 | 30 | 29 | 30 | 31 | 32 | 34 | 35 | 37 |