

# Anderson Development Company

Dial-a Durometer (DAD) using Andur 7 APLM and Andur 7 DPLM cured with Curene 107

|                        |           |           |           |           |           |           |           |      |      |      |      |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|------|------|------|
| Andur 7 APLM(wt%)      | 100       | 90        | 80        | 70        | 60        | 50        | 40        | 30   | 20   | 10   | 0    |
| Andur 7 DPLM (wt%)     | 0         | 10        | 20        | 30        | 40        | 50        | 60        | 70   | 80   | 90   | 100  |
| % NCO (calc.)          | 2.40      | 2.91      | 3.42      | 3.93      | 4.44      | 4.95      | 5.46      | 5.97 | 6.48 | 6.99 | 7.50 |
| Stoichiometry (actual) | 0.95      | 0.95      | 0.95      | 0.95      | 0.95      | 0.95      | 0.95      | 0.95 | 0.95 | 0.95 | 0.95 |
| Hardness, Shore        | 72A (23D) | 78A (25D) | 83A (27D) | 88A (31D) | 92A (36D) | 95A (42D) | 97A (48D) | 53D  | 58D  | 63D  | 68D  |
| Elongation, %          | 670       | 660       | 650       | 620       | 590       | 570       | 540       | 510  | 460  | 420  | 360  |
| Tensile Strength, psi  | 5200      | 6300      | 7000      | 8000      | 8400      | 8400      | 8500      | 8500 | 7200 | 6900 | 6700 |
| 100% Modulus, psi      | 500       | 610       | 720       | 850       | 1000      | 1200      | 1400      | 1700 | 2000 | 2300 | 2700 |
| 300% Modulus, psi      | 790       | 940       | 1100      | 1400      | 1700      | 2000      | 2300      | 2800 | 3400 | 4100 | 5000 |
| Die C Tear, pli        | 350       | 410       | 440       | 470       | 500       | 540       | 580       | 650  | 730  | 820  | 920  |
| Split Tear, pli        | 160       | 180       | 210       | 240       | 280       | 320       | 370       | 420  | 480  | 550  | 530  |
| Compression Set        |           |           |           |           |           |           |           |      |      |      |      |
| 22 hrs @ 70 C          | 26        | 26        | 28        | 34        | 38        | 54        | 65        | 69   | 77   | 88   | ***  |
| Compress. Deflect.     |           |           |           |           |           |           |           |      |      |      |      |
| @5%                    | 70        | 90        | 110       | 150       | 200       | 250       | 310       | 370  | 430  | 510  | 640  |
| @10%                   | 160       | 190       | 250       | 360       | 510       | 680       | 870       | 1100 | 1400 | 1800 | 2200 |
| @15%                   | 250       | 310       | 390       | 560       | 780       | 1000      | 1300      | 1700 | 2100 | 2700 | 3300 |
| @20%                   | 340       | 420       | 520       | 710       | 960       | 1300      | 1600      | 2000 | 2500 | 3100 | 3800 |
| @25%                   | 440       | 530       | 640       | 850       | 1100      | 1400      | 1800      | 2300 | 2800 | 3400 | 4100 |
| Bashore Rebound, %     | 50        | 43        | 38        | 40        | 42        | 45        | 46        | 47   | 49   | 50   | 50   |