**Table 1.** The thermal maturation indicator of organic-rich mudrocks in the Fuxin Basin

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Formation | Count | *T*max (°C) | | | *R*o (%) | | |
| FY-2 | FY-1 | DY-1 | FY-2 | FY-1 | DY-1 |
| Dolerite  layers | Range | 445–605 | 464–520 | 440–551 | 0.72–2.32 | n.d. | n.d. |
| Average | 510 (*n*=5) | 494 (*n*=7) | 501 (*n*=4) | 1.42 (*n*=7) | n.d. | n.d. |
| K1*f* | Range | n.d. | 424–443 | 413–439 | n.d. | 0.59–0.59 | 0.55–0.62 |
| Average | n.d. | 433 (*n*=6) | 431 (*n*=8) | n.d. | 0.59 (*n*=1) | 0.58 (*n*=3) |
| K1*sh*4 | Range | 431–439 | 436–446 | 431–465 | 0.51–0.61 | 0.61–0.75 | 0.62–1.11 |
| Average | 435 (*n*=14) | 442 (*n*=21) | 443 (*n*=53) | 0.56 (*n*=10) | 0.68 (*n*=8) | 0.80 (*n*=9) |
| K1*sh*3 | Range | 433–440 | 443–451 | 470–502 | 0.60–0.75 | 0.77–1.27 | 1.31–1.45 |
| Average | 436 (*n*=15) | 446 (*n*=10) | 482 (*n*=21) | 0.66 (*n*=9) | 0.98 (*n*=7) | 1.62 (*n*=5) |
| K1*sh*1-2 | Range | 437–441 | 449–456 | 482–540 | 0.74–0.82 | 1.31–1.45 | 1.98–2.19 |
| Average | 439 (*n*=14) | 453 (*n*=8) | 516 (*n*=14) | 0.78 (*n*=4) | 1.38 (*n*=3) | 2.05 (*n*=4) |
| K1*jf*3 | Range | 436–454 | 452–489 | 513–527 | 0.84–1.00 | 1.50–2.12 | 2.03–2.25 |
| Average | 449 (*n*=26) | 463 (*n*=26) | 520 (*n*=3) | 0.92 (*n*=12) | 1.75 (*n*=11) | 2.14 (*n*=2) |
| K1*jf*2 | Range | 445–459 | 486–492 | n.d. | 0.99–1.06 | 1.94–2.25 | n.d. |
| Average | 452 (*n*=13) | 488 (*n*=6) | n.d. | 1.03 (*n*=5) | 2.10 (*n*=2) | n.d. |