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## Erapol RN70A/L-RN70A

FORMULATIONS

### TECHNICAL DATASHEET

**Eracure C32** and **Plasticizer** can be used in combination with **MOCA** to lower the hardness of **Erapol RN70A** or **L-RN70A** below 70 Shore A. Typically the plasticizer is mixed into the prepolymer, followed by the addition of the curative. Adding a suitable catalyst such as **Coscat 83** (0.5 to 1.0 pbw) to reduce pot life and demold times is a good practice. The following formulations will give a guide to the hardness.

Several other commercially available curatives can be used with **Erapol RN70A/L-RN70A**. For further details contact **Era Polymers** Technical Department.

#### Formulations with NO catalyst @ 2.55%NCO (95% theory)

| Hardness<br>(Shore A) | Parts By Weight |             |      |                        | Pot life at 80°C<br>(mins) |
|-----------------------|-----------------|-------------|------|------------------------|----------------------------|
|                       | RN70A/L-RN70A   | Eracure C32 | MOCA | Plasticizer<br>(Fyrol) |                            |
| 30                    | 100             | 4.85        | 0    | 30                     | 70                         |
| 35                    | 100             | 4.85        | 0    | 20                     | 60                         |
| 40                    | 100             | 4.85        | 0    | 10                     | 45                         |
| 45                    | 100             | 4.85        | 0    | 0                      | 30                         |
| 50                    | 100             | 2.40        | 3.90 | 0                      | 16                         |
| 55                    | 100             | 1.90        | 4.60 | 0                      | 14                         |
| 60                    | 100             | 1.50        | 5.40 | 0                      | 12                         |
| 65                    | 100             | 1.00        | 6.20 | 0                      | 11                         |
| 70                    | 100             | 0           | 7.70 | 0                      | 10                         |

#### NOTES

1. All hardness results are averages, expect  $\pm 3$  Shore A.
2. Add **Eracure C32** and **Plasticizer** to **RN70A** or **L-RN70A**, mix and degas, followed by addition of **MOCA**.
3. A suitable catalyst such as **Coscat 83** can be added.
4. Suitable plasticizers include Santicizer 160, Fyrol, Benzoflex 988.



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## Formulations with catalyst @ 2.55%NCO (95% theory)

| Hardness<br>(Shore A) | Parts By Weight |             |      |          | Pot life at 80°C<br>(mins) | Demould time at 110°C<br>(mins) |
|-----------------------|-----------------|-------------|------|----------|----------------------------|---------------------------------|
|                       | RN70A/L-RN70A   | Eracure C32 | MOCA | Catalyst |                            |                                 |
| 45                    | 100             | 4.85        | 0    | 0.05     | 6                          | 40                              |
| 40                    | 100             | 2.40        | 3.90 | 0.05     | 6.5                        | 35                              |
| 42                    | 100             | 1.90        | 4.60 | 0.05     | 6.5                        | 35                              |
| 44                    | 100             | 1.50        | 5.40 | 0.05     | 6                          | 35                              |
| 45                    | 100             | 1.00        | 6.20 | 0.05     | 6.5                        | 30                              |

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