

# JTI

Partners.



# FASTER CURING EPDM USING ACTIV8

## JTI Partners: Case Study

*Customer: S&N Rubber PTY Ltd.*

*Customer Contact: Shaun Jansen*

*Production Manager and Polymer Chemist*



## CHALLENGE

S&N Rubber, a customer of JTI Partners, were seeking ways to improve productivity by reducing press cycle times, increasing throughput, and ultimately lowering manufacturing costs.

## Key Findings



### IMPROVEMENT

reducing cure time  
by 33%

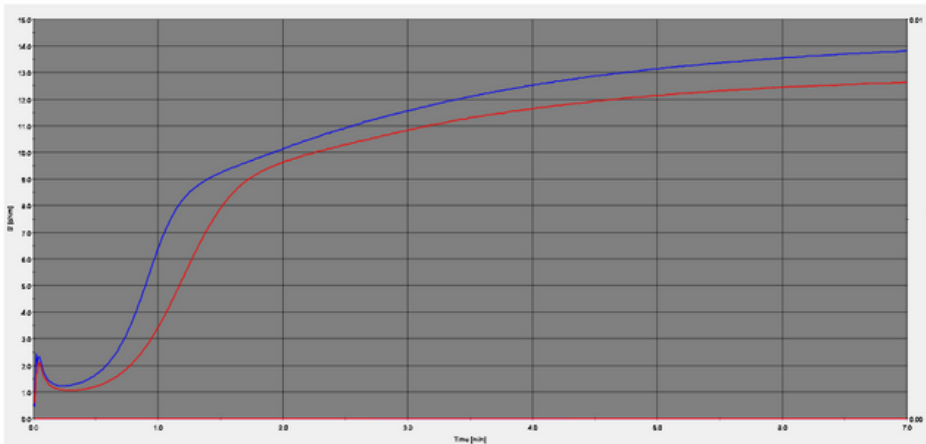


### 120 seconds

consistent cure times  
of 120 seconds

## SOLUTION

Activ8 was incorporated into the existing EPDM formulation while keeping all other components unchanged. Through iterative testing, the Activ8 loading level was optimised to achieve the desired balance of cure speed and process control. The final formulation, using 0.5 phr Activ8, provided a significant improvement in cure rates while remaining compatible with the customer's production setup.



## DATA

Activ8 has demonstrated the ability to accelerate cure rates in EPDM compounds more effectively than any other accelerators at comparably low dosages.

## RESULTS

1

**Cure Rate:** Rheometer data shows a clear forward shift in the cure curve, confirming a significantly faster cure.

2

**State of Cure:** The curve also shifts upward, indicating a slightly higher maximum torque (i.e., improved crosslink density).

3

**Customer Outcome:** With the optimized Activ8 dosage, the customer achieved consistent cure times of 120 seconds, significantly reducing their cycle time from 150 – 180 seconds. They expressed strong satisfaction with the result.



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