



CERTIFIED TEST REPORT SUMMARY

(Compared against ASTM / ACI / ICC-ES AC454 requirements)

Property	RebarX Result	Standard Requirement	Status
Fiber Content	79–82%	$\geq 70\%$	✓ Pass
Heat Resistance	111–116 °C	≥ 110 °C	✓ Pass
Degree of Cure	98–99%	$\geq 95\%$	✓ Pass
Cross-Sectional Area	121–191 mm ²	Meets ranges	✓ Pass
Tensile Strength	863–917 MPa	≥ 700 MPa	✓ Pass
Tensile Modulus	46–48 GPa	≥ 45 GPa	✓ Pass
Shear Strength	141–148 MPa	≥ 131 MPa	✓ Pass
Bond Strength	9.1 MPa (M13)	≥ 7.6 MPa	✓ Pass
Moisture Absorption (24h)	0.06–0.15%	$\leq 0.25\%$	✓ Pass
Moisture Absorption (Saturation)	0.46–0.72%	$\leq 1.0\%$	✓ Pass
Alkaline Resistance	84% retained	$\geq 80\%$	✓ Pass

- **High tensile strength:** 863–917 MPa (well above 700 MPa requirement).
- **Stiffness:** 46–48 GPa, meeting modulus standards.
- **Durability:** Strong performance in alkaline, heat, and moisture tests.
- **Engineering use:** Suitable for residential, mid-rise, and high-rise structures (depending on design).