



Parker Morris, Ph.D.

Scientist | Polymers & Chemistry
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Professional Profile

Dr. Parker Morris is a polymer scientist and trained chemist with expertise in the design, synthesis, and characterization of next-generation polymeric materials. His research and cross-disciplinary background include polymer synthesis, formulation and emulsion design, adhesive optimization, and sustainable materials. Dr. Morris consults on a variety of materials challenges using established and novel laboratory techniques and his deep understanding of structure-property relationships.

Dr. Morris has a robust background in polymer synthesis and characterization facilitating failure analysis across many soft material applications. His technical toolkit includes spectroscopy techniques such as nuclear magnetic resonance (NMR) and Fourier transform infrared (FTIR) spectroscopy. His thermomechanical background includes analysis by differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), dynamic mechanical analysis (DMA), polymer rheology, and mechanical characterization techniques such as peel, lap shear, and stress-strain analysis. These skills drive a data-driven approach to client solutions applicable across diverse materials systems.

Prior to joining Exponent, Dr. Morris earned his Ph.D. from the University of California, Santa Barbara where he studied degradable materials for plastic circularity as well as structure-property relationships and monomer design. His research earned Dr. Morris recognition as a National Science Foundation Graduate Research Fellow and a BioPACIFIC MIP Fellow.

Academic Credentials & Professional Honors

Ph.D., Chemistry, University of California, Santa Barbara, 2026

B.S., Chemistry, University of Oregon, 2021