Polymeron

www.polymeron.hu

Our services
for the rubber industry

We can assist you in any stage of your development or manufacturing workflow from raw material testing through compounding and curing to cured rubber characterization

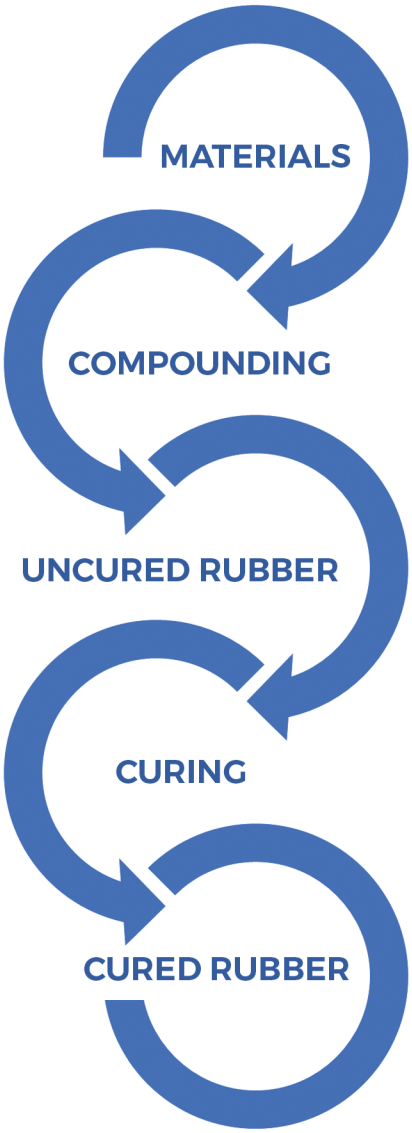
Internal mixing (Banbury, Intermix)
Continuous process parameter monitoring and recording (torque, temperature)
Roll milling
Variable roller speed and friction

Atmospheric curing
Hot air oven
High pressure curing
Hot press, autoclave

Specimen preparation
pneumatic cutter or water-jet
Morphological characterization
Filler distribution
LM, SEM (with EDX), TEM, AFM
DSC
TGA
FTIR
Soxhlet extraction
Swelling tests
Crosslink density tests

Complex problem solving
Compound development
Production related problem solving
Sustainability studies
Recycling studies

...and the specific solution you need.



Moisture content
Mooney viscosity
Density
Frequency sweep material analysis (MWD, AWD comparison)
Fractionation with sieve shaker

Mooney scorch
Variable strain isothermal and anisothermal cure (with simultaneous foaming option)

Mechanical characterization
Hardness (Shore A, D, IRHD)
Quasistatic tensile and compression testing (-70...+250 °C)
Tension and compression set
Tear tests
Dynamic testing (IFWI)
Fatigue testing
DMTA (-100...+300 °C, storage modulus, loss modulus, loss factor, Payne-effect)
TMA
DIN Abrasion
Tribology (COF tests)

Other methods
Raman spectroscopy
Flammability tests
Electrical and heat conductivity tests
Gas permeability tests

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