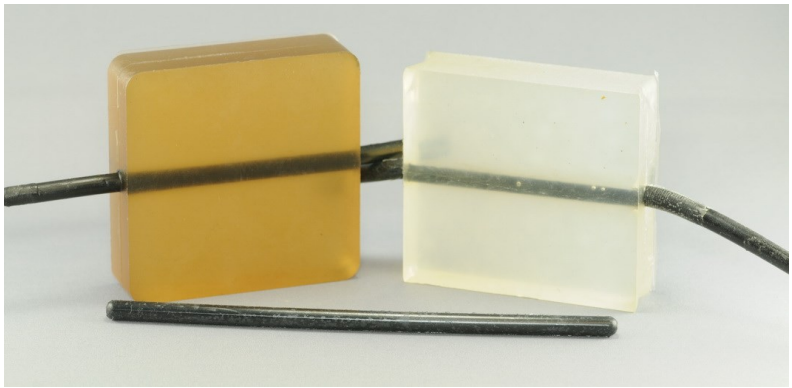
INNOVATION POLYMERS

Innovation Polymers Product Overview 2014 R1

Sound Transfer - Coupling Media

Our focus is on highly effective sound transfer through the development of acoustic-capable polymers. These new polymers enable coupling of the ultrasonic sensor to the material under test or provides a layer to couple, seal or optimize energy transfer.

- Industrial dry coupling applications
- Novel wheel probe or delay line
- Sensor covers or optimizing layers
- Medical phantom
- Sensitivity and resolution targets



Our story for medical

Merus, Aqualene and Spectre are new polymers designed specifically for ultrasonic medical applications, including tissue mimicking. Merus and Aqualene are thermoset elastomers which are soft and flexible. Spectre provides unique characteristics which include excellent toughness and wear features. For high frequency work or area targets (implanted spheres, tubes) are embedded for accurate system calibration, we also introduce fine wire embedded targets. The introduction of varied scattering media and layer characteristics offers a wide range of tissue-mimicking ability.

Contact Us

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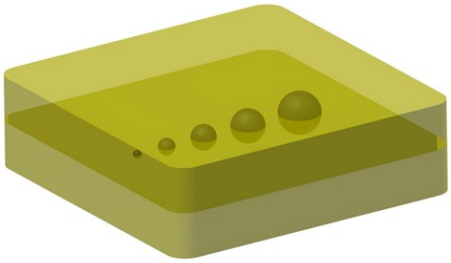
Visit us on the web:
www.innovationpolymers.ca

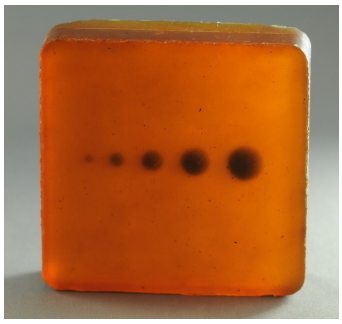
Who We Are

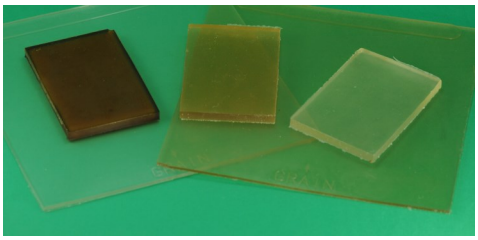
The key founders of the company have the experience and dedication needed for the advancement of sound transfer technology. With over 35 years of rubber molding and production experience Rick MacNeil knows how it's done.

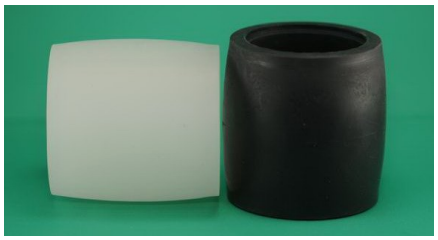
The ultrasonic side is managed by Robert Ginzel and Edward Ginzel, who contribute over 80 years of combined NDT knowledge, specializing in advanced Ultrasonic applications.

We have the facility and capability to develop a wide range of unique sound coupling media.









Multiple layer, sheet or your unique shape

Solutions Through Innovation

Products and Services

The product range we offer is truly targeted at ultrasonic coupling, but we are always interested in unique applications where more than just getting sound into material is the goal. Let us collaborate on your application needs. Barrier layers or novel shapes sandwiched between layers of varied materials with specific properties could provide your team with the next innovative advancement.

Consider:

- immersion chamber applications
- novel direct coupling for flow
- dry coupling for composites
- Doppler and harmonic applications

What is your unique challenge? Specular reflection, diffuse reflection, scattering . . ?

More about our story

Our facility is equipped with ultrasonic instrumentation and a wide range of press capability. Die design and other custom work are all part of our complete service philosophy.