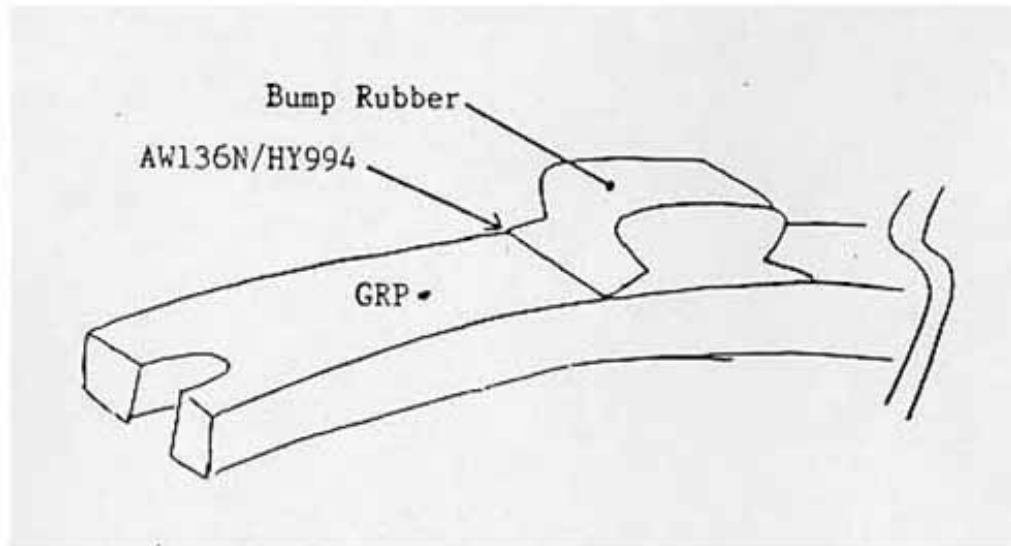


Huntsman Advanced Materials**Structural Adhesives In Action**



Application	Bonding the "Bottoming Rubber" to GRE leaf springs for automobiles
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Substrates bonded	Butadiene - Natural Rubber to Glass reinforced Epoxy (GRE)
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Pretreatments	The rubber is abraded and a primer applied (not disclosed) The pretreatment for the GRE is not disclosed
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Design of joint	Lap joint
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Curing conditions	1 hour at 100°C
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Special service conditions	Automotive exterior environment
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Advantages for the customer	Good adhesion on rubber and GRE Long term durability No recorded defects from 1 million units in 7 years
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Advantages over competition	No details
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