MANUFACTURING HIGH QUALITY ENGINEERING RUBBER PRODUCT FOR PROTECTION OF STRUCTURES AND BUILDINGS

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Abstract

Charles Goodyear and manufacturers associated with him began making rubber goods in 1883. The material of the rubber goods melted and developed an offensive odor during the summer of 1834. Perhaps it was the beginning of vulcanized rubber products. Today a numbers of different compounding materials are added to the rubber because they play a role in the vulcanization process. Vulcanization of rubber is of supreme importance to the consumer and the Rubber Industry, for without its discovery, the Rubber Industry would not exist today, at least not in its present form or size. Natural Rubber is an excellent and a very versatile Engineering material. We can make it very soft and on the other side we can make it as very stiff yet flexible through the modification of its molecular properties. We have taken advantage of this properties to manufacture many Rubber Products for Engineering Applications.

The Manufacturing Technology for making such Rubber Products for Engineering applications today such as Marine Port Fenders for absorbing the kinetic energy of the Berthing Vessels, Anti Vibration Pads for Railway Lines to reduce the transmission of vibration to surrounding structures and High Damping Rubber Pads as the Base Isolators to protecting Building and Bridges it from Earthquake forces, is more complicated. Specialized Processing Equipment are required to fabricate and vulcanized such articles to meet the actual demand for the product’s performances. Today the requirement for engineering rubber products becoming bigger and very complex, the Manufacturing Technology and Equipment also changes along with them.