

## عنوان مقاله:

Experimental Investigation on a Heavy Duty Engine Mount Elastomer

## محل انتشار:

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## خلاصه مقاله:

Elastomeric engine mounts are being used in heavy vehicles as well as passenger cars to absorb the vibrations of the engine, carry its weight and reduce its movement while driving. The aim of this research is some studies that have been done to find the components of the elastomeric compound. Moreover, the feasibility study of constructing three different specimens with different percentages of soot and oil has been carried out in order to achieve the desired characteristics in the heavy vehicle engine mount. A rheometric test was then performed to determine the temperature and time of sintering. The tensile strength test has been used to determine the elasticity of the rubber specimens and to achieve high damping coefficients. Also the tensile strength test was performed with the aim of obtaining a specimen with a suitable stress-strain relationship and comparing the results with the reference engine mount. Consequently, the elastomeric compound is used to make the elastomeric engine mount of heavy duty vehicle in the form of rubber and reverse engineering.

## کلمات کلیدی:

Elastomeric compound, Engine mount, Hardness test, tensile strength test, Resilience test

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1865279>

