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Dynamic Rheological Behavior of Thermoplastic Elastomers from PA6,66 /EPDM Blends: Effect of Blend Ratio, Compatibilization and Dynamic Vulcanization

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Abstract: *In this work rheological behavior of PA6,66/EPDM blends have been investigated. Viscoelastic properties such as complex viscosity(η*), Storage modulus and loss modulus of uncompatibilized, compatibilized and dynamically vulcanized blends on the rheological behavior is discussed in detail. The effect of compatibilisation on the interfacial tension between the polymers is also discussed. Attempts were done to correlate the phase morphology with rheological data.*

Keywords: Rheology, Complex viscosity, Storage modulus, loss modulus

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