

An Age-Old and Young Natural Polymer——Gutta-Percha

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Summary The article briefly reviews the developing history and resources-situation of Gutta-Percha. It points out that the birth of Gutta-Percha rubber with high elasticity is a sign that the research-development of Gutta-Percha has entered into a new stage. A new concept has been proposed that the critical crosslinking-degree is a key that Gutta-Percha gets high elasticity. The high elasticity of the macromolecule-network made of the order-flexible chain of Gutta-Percha can not be explained by the contribution of disordercoil chain, it is due to the entirety-disorder of the macromolecule-network of Gutta-Percha. The research-development of Gutta-Percha has entered into a new stage of systematic project.

Key words Gutta-Percha, High elasticity, Critical crosslinking-degree, Entirety-disorder, Systematic project.

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为了反映我国功能高分子方面的科学研究成果,促进国内外学术交流,由华东化工学院、复旦大学、中国科学院上海有机化学研究所等单位发起并经国家教委批准,经过近一年的筹备,《功能高分子学报》已于1988年11月正式创刊。谨此向高分子学术界许多老前辈和广大从事功能高分子研究的科技工作者对刊物的热情支持和鼓励表示感谢。

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