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Polyolefin Compounds And Materials Fundamentals

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Polyolefin, any of a class of synthetic resins prepared by the polymerization of olefins. Olefins are hydrocarbons (compounds containing hydrogen [H] and carbon [C]) whose molecules contain a pair of carbon atoms linked together by a double bond.

Polyolefin | chemical compound | Britannica

The trend in food packaging technology consists from research and development of new material that exhibits significantly improved barrier properties against gases and vapors. Low-permeable materials can decrease the total amount of packaging

Polyolefin in Packaging and Food Industry. In Polyolefin ...

A polyolefin is a type of polymer produced from a simple olefin (also called an alkene with the general formula $C_n H_{2n}$) as a monomer. For example, polyethylene is the polyolefin produced by polymerizing the olefin ethylene. Polypropylene is another common polyolefin which is made from the olefin propylene.

Polyolefin - Wikipedia

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Abstract Polyolefins are the most extensively used category of polymers, counting polyethylene (PE) and polypropylene (PP), which take up nearly 45 % in the global market. These polymers have become the integral part of our day-to-day life because of their multiple applications.

Recycling of Polyolefin Materials | SpringerLink

Polyolefin-based composites are developed to address the demand for higher load-bearing materials that are required for engineering applications which cannot be satisfied by polyolefins alone. In addition to the base polyolefin matrix, polyolefin composites contain at least one nonpolymeric

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additive which acts as a reinforcement.

Polyolefin - an overview | ScienceDirect Topics

Loosely defined, 'Ziegler-Natta catalysts' are polyolefin catalysts derived from transition metal halides and main group metal alkyls.^{1,4,9-11} In modern usage, this generally means titanium (and sometimes vanadium) chlorides with aluminum alkyls and/or alkylchlorides.

Polyolefin Catalyst - an overview | ScienceDirect Topics

Polyolefin Compounds and Materials, Fundamental and Industrial Applications, Editors: Mariam AlMaadeed, Igor Krupa, Springer. ISBN 978-3-319-25980-2 Polymer Science and Innovative Applications: Materials, Techniques, and Future Developments.

Mariam Al Maadeed - Wikipedia

Polyolefin is a polymer material made from the polymerization of small alkene compounds. Alkenes are organic compounds containing one or more double bonds between carbon atoms. The molecular formula of an alkene is given as $C_n H_{2n}$ whereas n is a small, whole number. When these alkenes form polymers, they are known as monomers.

Difference Between Polyolefin and Polyethylene | Compare ...

1.2 These test methods are useful to ensure compatibility and to verify that new formulations of filling or flooding compounds will have no deleterious effect upon the other polyolefin materials being used or, conversely, use these methods to ensure that other polyolefin wire and cable materials are evaluated for possible use not degraded by contact with fillers or floodants already in use.

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