

## Crystallization Behavior of PET Materials

Bilal DEMİREL<sup>1\*</sup>, Ali YARAŞ<sup>2</sup>, Hüseyin ELÇİÇEK<sup>3</sup>

<sup>1\*</sup> Erzurum University Faculty of Engineering, Department of Materials Science and Engineering, Kayseri.

<sup>2</sup> Bartın University Faculty of Engineering, Department of Metallurgy and Material Engineering, Bartın.

<sup>3</sup> Bartın University Faculty of Engineering, Department of Naval Architecture and Marine Engineering, Bartın.

### Abstract

*Polyethylene terephthalate, commonly coded as PET, PETE, is a thermoplastic polymer resin of the polyesters and is used in liquid containers, drinks, food and synthetic fibres. Depending on its processing and thermal conditions, PET may exist both as amorphous and as semi-crystalline. PET may appear opaque, white and transparent depending on its crystalline and amorphous structure. Its crystallinity and consequently its physical and mechanical properties are highly dependent on processing conditions like processing temperature, cooling rate, stretching process etc. In this study, it was tried to summarize all about PET crystallization by referring to all studies carried out before. Crystallization is very significant properties affecting all mechanical and physical properties of PET just as for all kind of polymers. As a result, this subject has taken in very good interest so far and it is believed that this interest will go on increasingly.*

**Keywords:** Crystallization, material properties, PET

## PET Malzemelerin Kristalizasyon Davranışı

### Özet

*Polyethylene terephthalate, PET veya PETE şeklinde kısaltması yapılan, sıvıların, yiyecek ve içeceklerin saklanması ve taşınmasında, sentetik liflerin yapımında kullanılan polyester sınıfından termoplastik polimer bir reçinedir. Termal ve proses şartlarına bağlı olarak, PET amorf ya da semi-kristal yapıda olabilir. Bu özelliğinden dolayı PET donuk, beyaz ya da camımsı bir yapıda olabilir. PET'in kristal yapısı, buna bağlı olarak da fiziksel ve mekaniksel özellikleri büyük oranda işlem sıcaklığı, soğutma hızı, gerdirme işlemi gibi proses parametrelerine bağlıdır. Bu çalışmada, PET'nin kristalizasyonu ile ilgili daha önce yapılan bütün çalışmalar özetlenmeye çalışılmıştır. Tıpkı bütün polimerlerde olduğu gibi kristalizasyon PET'nin bütün fiziksel ve*

\* Bilal DEMİREL, bilaldemirel@erciyas.edu.tr.

# Crystallization Behavior Of Pet Materials

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*Plastics Technology Handbook* - Don Rosato, 2010-10-22 This comprehensive handbook provides a simplified practical and innovative approach to understanding the design and manufacture of plastic products It will expand the reader's understanding of plastics technology by defining and focusing on past current and future technical trends Published in 2 volumes the content is presented so that both technical and non technical readers can understand the interrelationships of materials to processes Different plastic products are examined and their related critical factors are shown from meeting performance requirements in different environments to reducing costs and targeting for zero defects Examples used include small to large and simple to complex shapes Information is included on static properties tensile flexural dynamic properties creep fatigue impact and physical and chemical properties Extensive reference sources and useful data and physical and chemical constants are also provided Volume 1 sets out the basic principles of polymers what they are and how plastics are formulated processed and manufactured

*High Performance Plastics 2005*, 2005 High performance plastics are replacing traditional materials in hostile environments They possess characteristics such as exceptional strength lightweight temperature resistance usually in excess of 160 C chemical resistance and dimensional stability In addition plastics are relatively easy to process and can be coloured or transparent and moulded to create innovative and attractive structures The fun car market illustrates the increasing use of plastics materials and the versatility and appeal needed in materials for today's marketplace This two day international conference brought together experts discussing the latest developments in materials including properties processing and applications There are many different types of high performance elastomers Their unique properties are essential in hostile environments and application areas include the petrochemical and refining industries automotive aerospace defence wire and cable construction chemical plants nuclear medical food and seals Correct material selection compounding and processing are essential These proceedings have brought together a collection of papers for material suppliers engineers compounders manufacturers processors and end users of high performance elastomers who discussed the most appropriate materials and formulations for different applications

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