



WALMER ENERGY

Boston Solar Container High Temperature Resistant Type





Overview

What is heat resistant plastic?

Heat resistant plastics are a polymer material that can withstand high temperatures without degrading or losing their physical properties. These materials are often used in applications where the plastic will be exposed to high temperatures, such as in automotive and aerospace parts and industrial and electrical components.

What are the top 8 heat-resistant plastics?

Understanding the physics and chemistry behind the exceptional heat resistance of the top 8 heat-resistant plastics – PEEK, PI, PTFE, PEI, PPS, LCP, PAI, and PES – provides valuable insights into their suitability for specific applications.

What are heat-resistant engineering plastics?

Heat-resistant engineering plastics are essential for applications where high temperatures could compromise strength, stability, or performance. Top-performing materials like PPS, PSU, Ultem, PTFE, Vespel, Torlon, and PEEK are designed to withstand extreme heat without losing integrity.

What is a high heat plastic?

High-heat plastics are materials that resist high temperatures well. To classify a plastic as high heat, its Heat Deflection Temperature (HDT) must surpass 200°C at 264 psi (1.8 MPa). It means the plastic part can withstand elevated temperatures without significant loss of mechanical properties. This criteria ensures the material is suited for:



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High temperature resistance

High temperature polymers are available first as unmodified heat-resistant materials and second as modified high-performance thermoplastics. By adding reinforcing materials such as glass or ...

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