

Polyetherimide (PEI) Resin / Pellets – General Specification TDS

Re-Plastic Global

TECHNICAL DATA SHEET (TDS)

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1. Product Introduction

Polyetherimide (PEI) is a high-performance engineering thermoplastic featuring excellent thermal resistance, mechanical strength, and electrical insulation properties.

It is widely used in applications requiring high heat resistance, dimensional stability, and long-term mechanical performance.

Our PEI materials are available in multiple color grades depending on production and formulation, including:

Natural (light amber), Grey, Orange, Pink, Green, Light green, Black, and Blue.

Typical applications include:

- Electrical & electronic components
 - Automotive interior and functional parts
 - Medical device components
 - Aerospace structural parts
 - Industrial precision components
 - High-temperature engineering applications
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2. Product Specification

Item	Unit	Specification
Material	-	Polyetherimide (PEI)
Appearance	-	Pellets / Granules
Color Range	-	Natural (light amber) / Grey / Orange / Pink / Green / Light green / Bla
Density	g/cm ³	1.27 – 1.29
Melt Flow Rate (MFR)	g/10min	8 – 15 (300°C / 5 kg)
Tensile Strength	MPa	≥ 110
Flexural Strength	MPa	≥ 150
Heat Deflection Temperature (HDT)	°C	≥ 200 (at 1.82 MPa)
Glass Transition Temperature (Tg)	°C	~215 (reference value)
Moisture Content (as supplied)	%	≤ 0.20
Moisture Content (after drying)	%	≤ 0.02
Ash Content	%	≤ 0.10

3. Packaging

Packaging Type	Specification	Loading Capacity
PE Bag + Pallet	25 kg/bag	18 – 20 MTS / 20GP
Jumbo Bag	500 – 1000 kg/bag	20 – 24 MTS / 40HQ

Packaging can be customized according to customer requirements.

4. Storage & Handling

- Store in a dry, cool, and well-ventilated environment.
- Avoid moisture absorption, direct sunlight, and contamination with other polymers or foreign materials.
- Keep sealed packaging before processing to ensure stable material performance.

5. Manufacturer / Supplier Information

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6. Disclaimer

The information provided in this Technical Data Sheet is based on our current knowledge and experience. It is intended for general guidance only and does not constitute a guarantee of specific properties. Actual performance may vary depending on processing conditions and application requirements.