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## Company Profile

Distribution of Polymers since 2011

Based in Hamburg



High Performance  
Polymers







Sustainable  
Polymers



Sheet & Film

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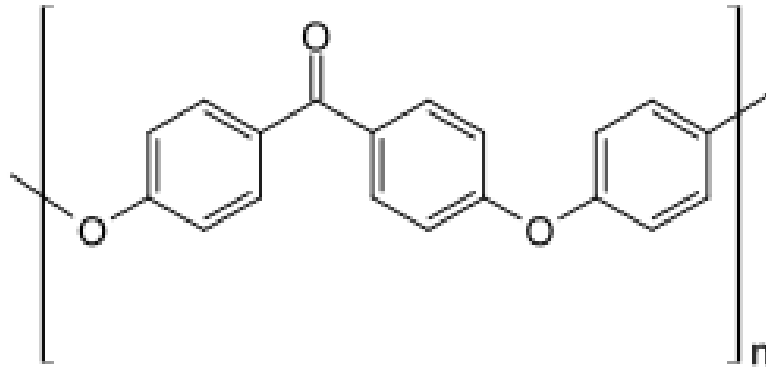
# High Performance Polymers

	<p>HP-Polymer raw materials</p>	<ul style="list-style-type: none"> <li>▪ PEEK granules and powder</li> <li>▪ Polyimide powder and granules</li> <li>▪ PEI granules</li> <li>▪ PPSU granules, PES, long-chain PA and more</li> </ul>
	<p>Sustainable HP-Polymers</p>	<ul style="list-style-type: none"> <li>▪ R-Peek with high purity and quality</li> <li>▪ Sprues, regrind and compounds from recycled</li> </ul>
	<p>Semi-finished parts</p>	<ul style="list-style-type: none"> <li>▪ PEEK rods, tubes and sheets</li> <li>▪ Polyimide rods and sheets - Meldin® 7000</li> <li>▪ PEI rods and sheets</li> <li>▪ PAI rods, tubes and sheets</li> </ul>
	<p>Finished parts &amp; services</p>	<ul style="list-style-type: none"> <li>▪ Injection molded or machined products</li> <li>▪ Coating of parts by Polyimide, PEEK or PAI</li> <li>▪ Consulting on new materials, product development and recycling of HP-Polymers</li> </ul>

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# High Performance Polymer: PEEK

Properties - Applications - Sales Portfolio



- Continuous-Service-Temperature: 250°C
  - High mechanical properties across different temperatures
  - Lubricant free operation
  - Ability to match thermal expansion of metal
  - Excellent chemical resistance against automotive fluids
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# High Performance Polymer: PEEK

Properties - Applications - Sales Portfolio

Oil & Gas



Electronic



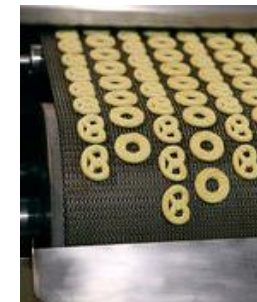
Automotive



Medical

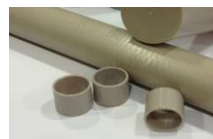


Food



# High Performance Polymer: PEEK

Properties - Applications - Sales Portfolio

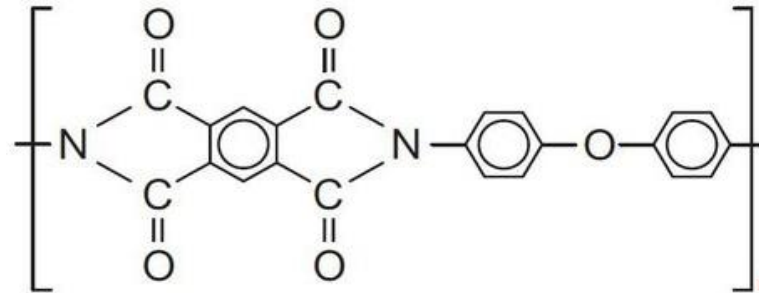


- Natural resin
- Granules and powder
- Rods and tubes
- Compounds
- Sheet and thin film
- Filaments and shrink-tubes
- Coating products
- 3D-printing products
- R-PEEK
- Finished parts

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# High Performance Polymer: Polyimide (PI)

Properties - Applications - Sales Portfolio



- Continuous-Service-Temperature: 315°C
  - Withstands high operating temperatures
  - Good resistance to aging & moisture absorption
  - Lubricant free operation
  - Ability to match thermal expansion of metal
  - Excellent chemical resistance against automotive fluids
-



# High Performance Polymer: Polyimide (PI)

Properties - Applications - Sales Portfolio

## Industrial



- Piston rings
- Hotrunner nozzles
- Plasma cutting gas distributors
- Packaging sealing elements

## Electronic



- Bobbin, basis material for conductor boards
- Isolation foils
- Sputtering equipment

## Automotive & Aviation



- Brake wear sensor
- Polymer-gears
- Thrust washers
- Valve seats & seals
- Vane bushings

## Others

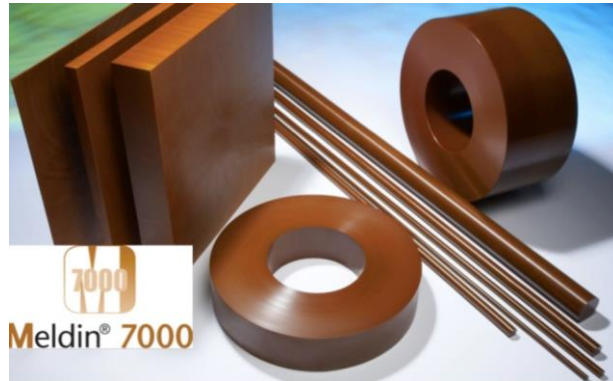


- Additive for PTFE & other compounds
- Direct forming of final parts
- Paste compounds



# High Performance Polymer: Polyimide (PI)

Properties - Applications - Sales Portfolio



- Rods and sheet: Meldin 7000
- Direct formed parts
- Machined parts

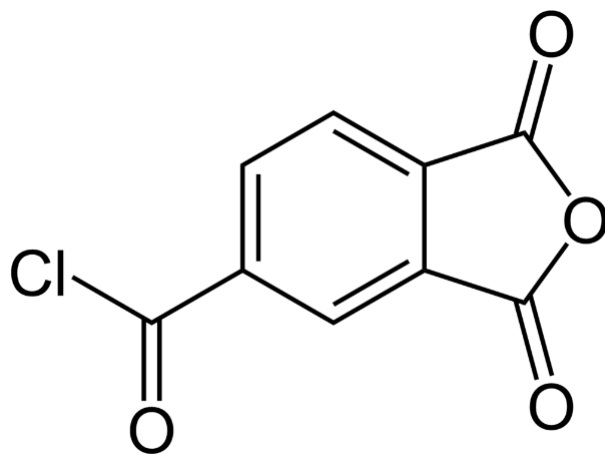


- PI-Powder
- Thermoplastic PI

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# High Performance Polymer: Polyamide-imide (PAI)

Properties - Applications - Sales Portfolio



- Continuous-Service-Temperature: 275°C
  - Highest performing meltable thermoplastic
  - temperature resistance, chemical resistance and mechanical stress
  - Its mechanical strength at 205°C outperforms many engineering plastics
  - Transformed from a thermoplastic to a cross-linked thermoset during an extended curing process
-

# High Performance Polymer: Polyamide-imide (PAI)

Properties - Applications - Sales Portfolio

## Aerospace & Aviation



- Thermal isolators
- Blocker door bushings
- Aerostructure
- Propulsion & Cabin

## Life Science & Medical



- Sterilization
- x-ray transparency
- Rollers
- bushings

## Semiconductor & Electronics



- Test sockets
- Wafer handling tools
- Chip nests
- Ferrules

## Oil & Gas & Automotive



- Seals & Lift buttons
- Thrust washers
- Suspension bushings
- Valve plates

## Metal Processing



- Plasma cutting tools
- Thermal insulator

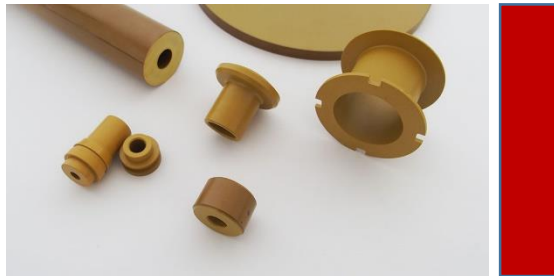
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# High Performance Polymer: Polyamide-imide (PAI)

Properties - Applications - Sales Portfolio



- Rods and tubes
- Sheet

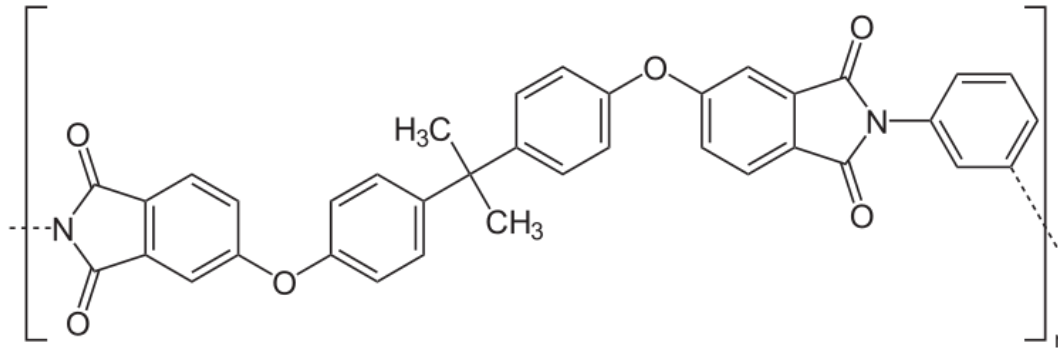


- Injection molded parts
  - Machined parts
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# High Performance Polymer: Polyetherimide (PEI)

Properties - Applications - Sales Portfolio



- Continuous-Service-Temperature: 170°C
  - excellent dimensional accuracy across a wide temperature range and exhibits low thermal expansion
  - PEI is naturally flame-retardant and has a fire rating of UL94 V-0
  - High strength and rigidity at elevated temperatures
  - long term heat resistance, dimensional stability and good electrical properties
-

# High Performance Polymer: Polyetherimide (PEI)

Properties - Applications - Sales Portfolio

## Automotive



- Transmission components
- Thermostat housings
- Reflectors
- Electromechanical systems

## Electronic



- Switches and controls
- Electrical motor parts
- Printed circuit boards
- Connectors

## Medical



- Membrane applications
- Biohybrid applications

## Other



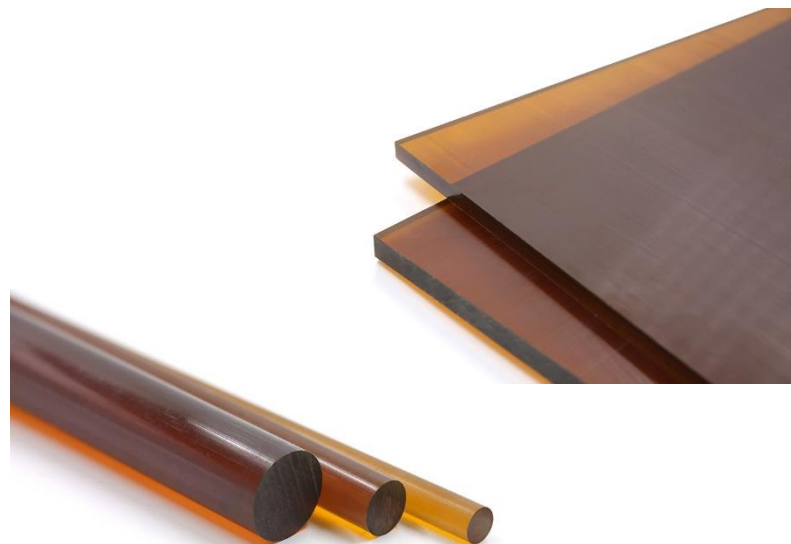
- Food and beverage
- Digital card printer frames
- Coil springs
- Cable guards



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# High Performance Polymer: Polyetherimide (PEI)

Properties - Applications - Sales Portfolio



- Rods
- Sheets
- Films
- Finished parts





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# High Performance Polymer: Other Products

Properties - Applications - Sales Portfolio



- PPSU resin
  - Long-chain PA
  - PA (GF with smooth surface)
  - Carbon fibres
  - PEEK-fibres as additives
  - PET semi-finished
  - PPS (granules / SF)
  - Other compounding products
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# High Performance & Sustainable Polymer: R-PEEK

Concept - Sales Portfolio

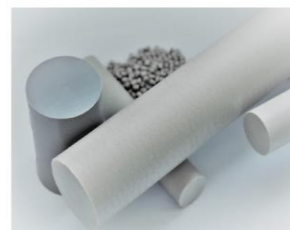
-  high quality
-  low priced
-  sustainable

WE **BUY** CLEAN AND CORRECTLY  
SORTED PEEK-RESIDUES



Regrind | Swarfs | Sprue

WE **SELL** PEEK: VIRGIN  
AND RECYCLED MATERIAL



Granules | Powder |  
Semi-Finished | Finished Parts

WE **CONVERT** PEEK-RESIDUES



Granulation | Compounding |  
Semi-Finished Parts | Distribution



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# High Performance & Sustainable Polymer: R-PEEK

Concept - Sales Portfolio



- Natural PEEK
- Black PEEK
- CF-PEEK
- GF-PEEK
  
- Ex-Luvocom
- Ex-Victrex
- Ex-CoPEEK
- Ex-Vestakeep
  
- Sprues
- Regrind
- Shavings



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## Partners





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We look forward to collaborating with you!

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