



INDUSTRIES 3R

MATERIAL SAFETY DATA SHEET

IDENTITY

Part Number: **PEEK**
 Identity: Polyetheretherketone
 Description: Synthetic Composite

SUPPLIER

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HAZARDOUS INGREDIENTS

(Additives not Hazardous by 29CFR 1910.1200)

Identity	# CAS	Concentration	TVL (TWA)
Polyetheretherketone carbon fiber	29658-26-2 7440-44-0		5 mg/m ³

PHYSICAL AND CHEMICAL DATA

Appearance: Stock shape may be in the form of rod or plate
 Odor: Essentially Odorless
 Melting Point: 334°C / 633°F
 Solubility in water: Insoluble
 Volatile Content %: < 1%
 Specific gravity: 1.52

FIRE AND EXPLOSION HAZARD DATA

Autoignition Temperature: 1103°F / 595°C

Unusual Fire/Explosion Hazards: None known.

Hazardous Decomposition Products: Heating above the melting point, or prolonged heating above 260 DEG C/ 500 DEG F may cause thermal deprecation of polytetrafluorethylene which leads to the formation of oxidized products containing carbon, fluorine and oxygen.

Special Fire-Fighting Instructions: Fire-fighters and others exposed to products of combustion should wear full protective clothing including self-contained breathing apparatus. Fire-fighting equipment should be thoroughly decontaminated after use.

Extinguishing Media: Water Fog, Foam, CO₂, Dry Chemical.

HAZARDOUS REACTIVITY

Stability at room temperature: Stable

Materials to Avoid: Concentrated Sulfuric Acid

Conditions to Avoid: None known

EMERGENCY FIRST AID

If exposed to fumes from overheating, move to fresh air. Consult a physician if symptoms persist.

Wash skin with soap and plenty of water.

Flush eyes with water. Consult a physician if symptoms persist.

If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention to thermal burn.

Chronic Effects: None known.

Medical conditions generally aggravated by this material: None known

TOXICOLOGICAL/ECOLOGICAL INFORMATION

Toxicological Information

Chronic Toxicity: Toxicity information is not available for this composite.

Carcinogenicity: None known

Ecological Information

Aquatic Toxicity: Toxicity is expected to be low based on insolubility of polymer in water.

HEALTH HAZARDS DATA

Acute or immediate effects: Routes of entry and systems.

Ingestion: Not a probable route of exposure.

Skin: Molten polymer causes thermal burns.

Eye: Mechanical irritation only.

Inhalation: Shapes not respirable.

Physical Health Hazards: Dust may form explosive mixtures with air. Avoid dust formation and control ignition sources. All plastic dust particles suspended in air are combustible and may be explosive. Keep away from heat, sparks, flame, and other ignition sources. Prevent dust accumulations and dust clouds. Employ grounding, venting, and explosive relief provisions in accordance with accepted engineering practices and NFPA provisions in any process capable of generating dust and/or static electricity. Explosion hazards apply only to dusts, not granular forms of this product. See also special precautions section below.

PROTECTION INFORMATION

Eye: Safety glasses are recommended to prevent particulate matter from entering eyes while grinding or machining.

Skin: Protective gloves are required when handling hot polymer. Also, long sleeve cotton shirt and long pants if handling molten polymer.

Ventilation: Local exhaust at processing equipment to keep particulates below 5 mg/m³, the OSHA limit for nuisance dusts. Grinding and machining of parts should be reviewed to assure that particulate levels are kept at recommended levels.

Respirator: None under normal processing, if ventilation is adequate.

ACCIDENTAL RELEASE MEASURES

Spill or release: Clean up by vacuuming or sweeping to prevent falls.

STORAGE CONDITIONS

Dry storage. Keep containers closed to prevent contamination.

DISPOSAL CONSIDERATIONS

Spill or release: Clean up by vacuuming or wet sweeping to minimize dust exposure.

Waste Disposal: Recycling is encouraged, landfill or incineration in compliance with Federal, State and Local regulations.

TRANSPORT INFORMATION

Dot Hazard Class: N/A

Shipping Name: N/A

REGULATORY INFORMATION

Section 313 Supplier Notification: (SARA Title III-Toxic Chemicals List)

This product contains no known toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372.

State Right to know laws

No substances on the state hazardous list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyse these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

Pennsylvania:

Substances on the Pennsylvania Hazardous substances list present at a concentration of 1% or more:
None known.

Substances on the Pennsylvania Special Hazardous substances list present at a concentration of 0.01% or more:
None known.

California Proposition 65:

Substances known to the state of California to cause cancer: None known.

Substances known to the state of California to cause birth defects or other reproductive harm: None known.

OTHER INFORMATION

HMIS RATING

Health: 0

#Acute

*Chronic

Flammability: 1

Reactivity: 0

PPE: A

DISCLAIMER

The information, details, dimensions and values indicated are to our best knowledge. We recommend testing according to local conditions. The specifications are subject to change without knowledge.