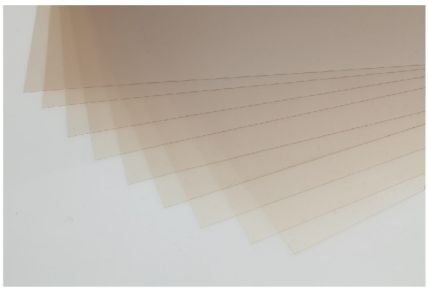
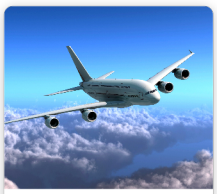
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Arolux® PEEK WM



Arolux® Polyetheretherketone (PEEK) is a semi-crystalline thermoplastic offering a combination of high temperature resistance, good wear and abrasion resistance, excellent dimensional stability and exceptional chemical resistance. The tensile and flexural properties of PEEK are among the highest of all thermoplastic resins. PEEK is an outstanding electrical insulator offering superior dielectric strength. In thinner gauge film (~0.10» and less) PEEK material will be translucent. As gauge increases, the material will become opaque beige in appearance.

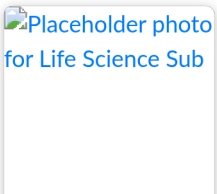
INDUSTRY



Aerospace & Defense



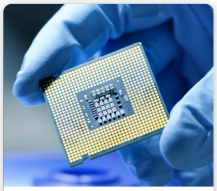
Chemical Process



Life Science Sub



Life Sciences



Semiconductor and ESD

COLORS AVAILABLE

Natural

ATTRIBUTES

- Heat Resistant
- Strength
- Chemical Resistance
- Stiffness
- Biocompatibility
- Wear Resistance

SHAPES

- Extruded Slab
- Extruded Sheet
- Extruded Film

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Arolux® PEEK WM

TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Modulus	ASTM D638	508,000 psi	3500 MPa
Tensile Strength @ Yield	ASTM D638	13,800 psi	95 MPa
Tensile Elongation @ Yield	ASTM D638	5.2 %	5.2 %
Flexural Modulus	ASTM D790	537,000 psi	3700 MPa
Flexural Strength	ASTM D790	21,200 psi	146 MPa
Notched Izod Impact	ASTM D256	1.7 ft-lb./in	0.091 kJ/m
Thermal			
HDT @ 264 psi (annealed)	ASTM D648	315 F	157 C
Glass Transition Temperature	ASTM D3418	302 F	150 C
Physical			
Specific Gravity	ASTM D792	1.30	1.30

*Data above is based on testing of injection molded test specimens

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Arolux® PEEK WM

PRODUCT SHAPES & DIMENSIONS

Extruded Slabs: 24"W (61cm)

0.75" (19.05mm) 1.0" (25.4mm) 1.25" (31.75mm) 1.5" (38.1mm)

Extruded Sheets: 48"W x 96"L (122cm x 244cm)

0.020" (0.51mm) 0.03" (0.76mm) 0.035" (0.89mm) 0.06" (1.52mm) 0.062" (1.57mm) 0.08" (2.03mm)

0.09" (2.29mm)

Extruded Sheets: 24"W x 48"L (61cm x 122cm)

0.75" (19.05mm) 1.0" (25.4mm) 1.5" (38.1mm) 2.0" (50.8mm)

Extruded Films: 26"W (66cm)

0.002" (0.05mm) 0.005" (0.13mm) 0.010" (0.25mm) 0.020" (0.51mm) 0.025" (0.64mm)

LAST REVISED: 09/05/2025

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