

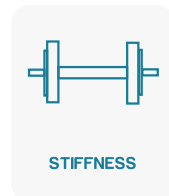
PEEK AROLUX™ PEEK

Arolux Polyetheretherketone (PEEK) is a semi-crystalline thermoplastic offering a combination of high-performance properties including high temperature resistance, very good wear & abrasion resistance, excellent dimensional stability and exceptional chemical resistance to organic acids, bases and good hydrolysis resistance in boiling water and steam. Additionally, Arolux PEEK has excellent dimensional stability, fatigue resistance and superior dielectric with low loss at high temperatures and frequencies. It is a good choice for use at elevated temperatures offering a continuous use temperature of 450°F.

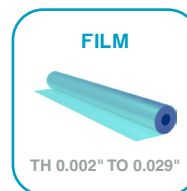
In thinner gauge film (-0.10" and less) the material will be translucent, as gauge increases the material will become a beige opaque in appearance.

The following physical property information is based on typical values of the base resin as well as test results obtained from actual film testing.

Property	Units	ASTM Test	Result
Mechanical			
Tensile Strength @yield	psi	D882	17,400
Elongation @break	%	D882	50%
Tensile Modulus	psi	D882	391,500
Flexural Modulus	psi	D790	531,000
Tear Strength - prop.	g/mil	D1004	35
Thermal			
Continuous Use Temp-UL	°F	—	464
Heat Deflection Temperature @264 psi	°F	D648	330
Melt Temp-DSC	°C	—	644
Glass Transition Temp	°F	D3418	289
Flammability			
UL Rating-UL94	—	—	VTM-1
L.O.I.	%	D2863	23
NBS Smoke	Dmax	E662	1
Electrical			
Surface Resistivity	Ohms	D257	1.8x10 ¹⁵
Dielectric Strength @.003"	V/mil	D149	3.200
Dielectric Constant	1 KHz	D150	3.30
Dissipation Factor	10 KHz	D150	0.0026
Other			
Specific Gravity	—	D792	0.0026
Water Absorption	%/24 hrs	D570	0.4
Refractive Index	—	—	—
Haze	%	D1003	0.5
Area Factor	in ² /ib/mil	—	20,900



Manufacturing Capabilities:



Colors:



In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.

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