AROLUX® PEEK

Arolux® is a Registered Trademark of Westlake Plastics Co.

Arolux PEEK has excellent low and high temperature performance, excellent electrical properties that are maintained over a wide frequency and temperature range. Arolux PEEK has excellent strength, stiffness, creep and fatigue resistance. Arolux PEEK has very good chemical resistance against a wide range of acids, bases, hydrocarbons and organic solvents. PEEK exhibit good resistance to radiation, good cut and wear properties. Inherently flame retardant withy low smoke a toxic gas emission.



The following physical property information is based on typica values of the base Victrex@ PEEKTLT 450G.

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 TempDSC	°F	-	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 Strenght @.003"	V/mil	D149	3,200
Dielectric Constant	1 KHz	D150	3,30
Dissipation Factor	10 KHz	D150	0,0026
Other			
Specific Gravity	-	D792	1,256
Water Absorption	%/24 hr.	D570	0,4
Refractive Index	-	-	-
Haze	%	D1003	0.5
Area Factor	in²/ib/mil	-	20,900

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Applications Include:

- Engine, Aerospace Parts
- High Temperature Bearing Material
- High Strength Structural Parts
- Valves, Seals and Gaskets
- Ducting
- Door Handles
- Clamps
- Electrical Connectors
- Mounts and Spacers
- Bearing Cages
- Fuel/Hydraulic Brackets
- Fuel Line Brackets
- Insulation Films
- Tube Connectors and Fittings
- Wire Harness brackets
- Metal Replacement / Weight Reduction

Manufacturing Capabilities:



Colors:

Lt grey

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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