

PPS AROLUX® PPS

Arolux® is a Registered Trademark of Westlake Plastics Co.

Arolux PPS is extremely chemical resistant polymer that will excel in corrosive environments. Virtually zero water absorption and can be machined to tight tolerances. Excellent lower cost alternative to PEEK at lower temperatures. Low smoke & flame. UL94 V-0 rating. Can be formulated for bearing & wear applications



Applications Include:

- Fuel System Components
- De-icing chemical components
- Electrical plugs, connectors, bobbins, relays, switches,
- Air intake systems
- Pumps, valves, gaskets components in corrosive environments
- Metal Replacement / Weight Reduction

Property	Typical Value Units	Test ASTM
Mechanical		
Density	1.30 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) ¹ (316°C/5.0 kg)	20 g/10 min	ASTM D1238
Water Absorption (24 hr, 23°C)	0.10%	ASTM D570
Mold Shrinkage ²	1.30 %	
Mechanical		
Tensile Modulus	2600 MPa	ISO 527
Tensile Strength	55.0 MPa	ISO 527
Tensile Elongation (Break)	15 %	ISO 527
Flexural Modulus	2500 MPa	ISO 178
Flexural Strength	100 MPa	ISO 178
Impact		
Notched Izod Impact Strength	30 Kj/m ²	ISO 180/A
Thermal		
Thermal Conductivity	0.20 W/m/K	ASTM E1530
Coefficient of Linear Thermal Expansion		ISO 11359-2
-50 to 50°C	7.5E-5 cm/cm/°C	
100 TO 200°C	1.2E-4 cm/cm/°C	
Heat Deflection Temperature		ASTM D648
0.45 MPa	130 °C	
1.8 MPa	95 °C	
Electrical		
Volume Resistivity	1.0E+15 ohms-cm	ASTM D257
Dielectric Strength	24 kV/mm	ASTM D149

Manufacturing Capabilities:



Colors:

Bone

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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