

PAR ARDEL®

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Stock shapes extruded from Ardel® resin are specially formulated to endure the damaging effects of UV light. When exposed to UV light, this unique material undergoes a molecular rearrangement resulting in the formation of a protective layer that essentially serves as a UV stabilizer. This inherent UV stability combined with superior retention of optical and mechanical properties make polyarylate an ideal choice for any application where weathering effects could pose a problem.

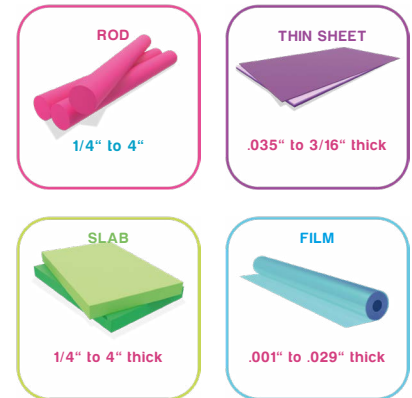
The following physical property information is based on typical values of the base polyarylate resin.

Electrical Properties	Test Method	Result	
		Metric	English
Surface Resistivity dry	ASTM D257	10 ⁹ - 10 ¹¹ ohm/sq	10 ⁹ - 10 ¹¹ ohm/sq
Volume Resistivity dry	ASTM D257	10 ⁹ - 10 ¹¹ ohm-cm	3.93 x 10 ⁹ - 3.93 x 10 ¹¹ ohm-in
Static Decay 15% RH	Mil-B-81705-B	<0.3 seconds	<0.3 seconds
Mechanical Properties	Test Method	Result	
		Metric	English
Tensile Strength at yield	ASTM D638	34 MPa	5 kpsi
Tensile Elongation at break	ASTM D638	13 %	13 %
Flexural Strength	ASTM D790	55 MPa	8 kpsi
Flexural Modulus	ASTM D790	1793 MPa	260 kpsi
Izod Impact Strength Notched	ASTM D256	3.2 J/cm	6 ft-lb/in
Izod Impact Strength Un-notched	ASTM D256	No Break J/cm	No Break ft-lb/in
Hardness-Shore D	ASTM D2240	68	68
Other Properties	Test Method	Result	
		Metric	English
Specific Gravity	ASTM D792	1.03	1.03
Water Absorption at 24 hours	ASTM D570	1.7 %	1.7 %
Thermal Properties	Test Method	Result	
		Metric	English
Heat Deflection Temp. at 264 psi	ASTM D648	71 °C	160 °F
Heat Deflection Temp. at 66 psi	ASTM D648	88 °C	190 °F
Flam. Rating-UL94	-	HB	HB

Applications Include:

- Semiconductor components
- Solar energy components
- Appliance parts
- Snap lock connectors

Manufacturing Capabilities:



Colors:

Natural

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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