

Stock shapes extruded from Ardel® resin are specifically formulated to endure the damaging effects of UV light. When exposed to UV light, the material undergoes a molecular change 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.

Property	Units	Test Standard	Result
Mechanical			
Tensile Strength @yield	psi	ASTM D638	10,000
Tensile Elongation @break	%	ASTM D638	60.0
Flexural Strength @yield	psi	ASTM D790	12,200
Flexural Modulus	psi	ASTM D790	305,000
Compressive Strength @yield	psi	ASTM D695	12,200
Izod Impact Notched @73°F	ft-lbs/in	ASTM D256	4.2
Hardness	R Scale	ASTM D7852	R125
Thermal			
Heat Deflection Temperature @264 psi	°F	ASTM D648	347
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	3.4x10 ⁻⁵
Flammability Rating	—	UL94	V-2
Electrical			
Dielectric Strength	kV/mil	ASTM D149	990
Dielectric Constant @1MHz	—	ASTM D150	3
Dissipation Factor @1kHz	—	ASTM D150	0.015
Volume Resistivity	ohm-cm	ASTM D257	2x10 ¹⁶
Optical			
Transparency @3mm	%	ASTM D1003	87
Other			
Specific Gravity	—	ASTM D792	1.21
Water Absorption @24 hours	%	ASTM D570	0.26

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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Phone : 1.610.459.1000
 Phone : 1.800.000.1700
 Fax : 610.459.1084
 490 West Lenni road
 Lenni, PA 19052
 U.S.A
 Email : info@westlakeplastics.com



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