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# PRODUCT BULLETIN

## ARDEL® POLYARYLATE

Stock shapes extruded from Ardel\* resin are specifically 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.

### **Applications Include:**

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

#### **Advantages of Ardel:**

- · Exceptional UV stability
- Transparency
- Toughness
- Excellent flexural fatigue resistance

#### **Manufacturing Capabilities:**

Rod: 1/4" to 4" dia.

Sheet: .035" to <sup>3</sup>/<sub>16</sub>" thick
 Slab: <sup>1</sup>/<sub>4</sub>" to 4" thick

Film: .001" to .029" thick

#### Colors/Grades:

Transparent light amber

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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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 <sup>-5</sup>
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 <sup>16</sup>
Optical			
Transparency @3mm	%	ASTM D1003	87
Other			
Specific Gravity	_	ASTM D792	1.21
Water Absorption @24 hours	%	ASTM D570	0.26

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