

## Westlake Plastics Ardel® Polyarylate

Category : Polymer , Thermoplastic , Polyarylate

**Material Notes:**

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. Information provided by Westlake Plastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Westlake-Plastics-Ardel-Polyarylate.php](http://www.lookpolymers.com/polymer_Westlake-Plastics-Ardel-Polyarylate.php)

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.26 %	0.26 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D7852
Tensile Strength, Yield	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Elongation at Yield	9.1 %	9.1 %	ASTM D638
Tensile Modulus	2.07 GPa	300 ksi	ASTM D638
Flexural Yield Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Compressive Yield Strength	83.98 MPa	12180 psi	ASTM D695
Izod Impact, Notched	2.03 J/cm	3.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.213 W/m-K	1.48 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °F	ASTM D648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 3.17 mm	@Thickness 0.125 in	
Oxygen Index	36 %	36 %	ASTM D2863

Optical Properties	Metric	English	Comments
Haze	2.3 %	2.3 %	ASTM D1746
Transmission, Visible	87 %	87 %	ASTM D1746

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+14 ohm-cm	2.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.32	3.32	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.7 kV/mm	400 kV/in	ASTM D149
Dissipation Factor	0.0040	0.0040	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

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