Westlake Ardel®

Polyarylate

Westlake Plastics Company

Message:

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.
Applications Include:
Semiconductor components
Solar energy components
Appliance parts
Snap lock connectors
Advantages of Ardel:
Exceptional UV stability
Transparency
Toughness
Excellent flexural fatigue resistance

General Information	
Features	Good Toughness Good UV Resistance Good Weather Resistance Opticals
Uses	Appliance Components Connectors Semiconductor Molding Compounds
Appearance	Amber Clear/Transparent
Forms	Film Rod Sheet Slab

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm³	ASTM D792
Water Absorption (24 hr)	0.26	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	68.9	MPa	ASTM D638

Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Flexural Strength (Yield)	84.1	MPa	ASTM D790
Compressive Strength	84.1	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	220	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	175	°C	ASTM D648
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+16	ohms·cm	ASTM D257
Dielectric Strength	39	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 kHz)	0.015		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 µm)	87.0	%	ASTM D1003

Recommended distributors for this material

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