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Ardel™

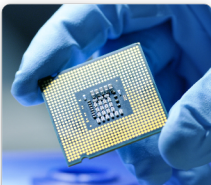


Ardel PAR polyarylate is a transparent, light-amber colored polymer that exhibits good toughness, superior optical and mechanical properties, exceptional UV stability, and excellent flexural fatigue resistance. Ardel PAR is specifically formulated to endure the damaging effects of UV light. Ardel PAR is recommended for semiconductor components, solar energy components, appliance parts, and snap lock connectors.

INDUSTRY



Engineering



Semiconductor and ESD

COLORS AVAILABLE



Natural

ATTRIBUTES

Heat Resistant	✓
Dielectric Properties	✓
Transparent	✓
UV Resistance	✓

SHAPES

Extruded Slab	✓
Extruded Sheet	✓
Extruded Film	✓



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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural modulus	D790	304 kpsi	2100 MPa
Flexural Strength - 5%	D790	12 kpsi	84 MPa
Izod Impact Resistance - Notched	D256	4.22 ft-lb/in	225 J/m
Tensile Elongation @ Break	D638	60 %	60 %
Tensile Strength @ Break	D638	10 kpsi	69 MPa
Thermal			
HDT @ 264 psi	D648	347 °F	175 °C
Physical			
Moisture Absorption	D570	0.26 %	0.26 %
Specific Gravity	D792	1.21	1.21

*Data above is based on testing of injection molded test specimens



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PRODUCT SHAPES & DIMENSIONS

Extruded Slabs: 24"W (61cm)

0.75" (19.05mm) 1" (25.4mm) 1.25" (31.75mm)

Extruded Sheets: 48"W x 96"L (122cm x 244cm)

0.03" (0.76mm) 0.035" (0.89mm) 0.06" (1.52mm) 0.062" (1.57mm) 0.08" (2.03mm) 0.09" (2.29mm)

0.095" (2.41mm) 0.125" (3.18mm) 0.1875" (4.76mm) 0.25" (6.35mm)

Extruded Films: 26"W (66cm)

0.002" (0.05mm) 0.003" (0.08mm) 0.004" (0.1mm) 0.005" (0.13mm) 0.010" (0.25mm) 0.020" (0.51mm)

LAST REVISED: 01/05/2024

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