

ARKPC220L

Polycarbonate

Product Description:

ARKPC220L is a polycarbonate (PC) material. This product is available in North America.

Basic information			
Characteristic	Medium liquidity General		
Physical Properties	Rated Value	Unit	Test Method
Proportion	1.20	g/cm ³	ASTM D792
MFR (300°C/1.2 kg)	15	g/10 min	ASTM D1238
Shrinkage Rate -(fluidity) (3.20 mm)	0.50 to 0.70	%	ASTM D955
Water Absorption Rate (24 hr)	0.15	%	ASTM D570
Mechanical	Rated Value	Unit	Test Method
Tensile Strength (Yield Point , 23°C, 3.20 mm)	62.0	MPa	ASTM D638
Elongation Rate (Fracture, 23°C, 3.20 mm)	60	%	ASTM D638
Flexural Modulus (23°C, 3.20 mm)	2340	MPa	ASTM D790
Flexural Strength (23°C, 3.20 mm)	96.0	MPa	ASTM D790
Impact Properties	Rated Value	Unit	Test Method
Izod Notched Impact Strength (23°C, 3.20 mm)	850	J/m	ASTM D256
Instrumented Falling Dart Impact) ¹ (23°C, 3.20 mm, Total Energy)	61.0	J	ASTM D3763
Flammability	Rated Value	Unit	Test Method
Heat Deflection Temperature			ASTM D648
0.45 MPa,Unannealed, 3.20 mm	135	°C	ASTM D648
1.8 MPa,Unannealed , 3.20 mm	125	°C	ASTM D648
Coefficient of Linear Expansion- fluidity (-40 to 35°C)	6.8E-5	cm/cm/°C	ASTM D696