

# Network Polymers PC 1029

Polycarbonate

Network Polymers, Inc.

## Message:

Network Polymers PC 1029 is a Polycarbonate (PC) product. It is available in North America. Typical application: Food Contact Applications.

Characteristics include:

Flame Rated

Food Contact Acceptable

General Information			
UL YellowCard	E51193-101898832		
Features	Food Contact Acceptable		
Agency Ratings	FDA 21 CFR 177.1580		
UL File Number	E150937		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>1</sup> (300°C/1.2 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	62.1	MPa	ASTM D638
Flexural Modulus <sup>3</sup>	2380	MPa	ASTM D790B
Flexural Strength <sup>4</sup>	89.6	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	640	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	127	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ALL)	V-2		UL 94
Injection	Nominal Value	Unit	Test Method
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	260 to 280	°C	
Middle Temperature	270 to 290	°C	
Front Temperature	280 to 300	°C	

Nozzle Temperature	270 to 290	°C
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	80.0 to 100	°C

NOTE

1.	Procedure A
2.	51 mm/min
3.	Method I (3 point load), 1.3 mm/min
4.	Method I (3 point load), 1.3 mm/min

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