

# Dayson Polymers, LLC

## TRILOY® 210N Flame Retardant

### Acrylonitrile Butadiene Styrene & PC Alloy

Property	Test Condition	Nominal Values (English)	Test Method
<b>Physical</b>			
Density – Specific Gravity	sp gr 23/23°C	1.22	ASTM 792
Melt Flow Rate	260°C/2.16kg	11 g/10min	ASTM D1238
Mold Shrink, Linear-Flow (0.118in)	in/in	0.0050 to 0.0070	ASTM 955
Water Absorption @ 24 hours	%	.20	ASTM D570
<b>Mechanical</b>			
Tensile Strength		8,530 psi	ASTM D638
Tensile Elongation @ Break	%	90	ASTM D638
Flexural Modulus		327,138 psi	ASTM D790
Flexural Strength		11,800 psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125in)	ft-lb/in	12.86	ASTM D256
<b>Hardness</b>			
Rockwell Hardness	R-Scale	115	ASTM D785
<b>Thermal</b>			
DTUL @ 264 psi - Unannealed		235 °F	ASTM D648
CLTE, Flow	in/in/°F	4.6E-005	ASTM D696
<b>Electrical</b>			
Volume Resistivity		5.0E+016 ohm-cm	ASTM D257
Dielectric Strength	V/mil	762	ASTM D149
Dielectric Constant	1000000 Hz	3.000	ASTM D150
Dissipation Factor	1000000 Hz	0.0090	ASTM D150
Arc Resistance	sec	120	ASTM D495
<b>Ignition Characteristics</b>			
Flame Rating – UL (0.0625in)		V-0	UL94

#### PROCESSING INFORMATION

INJECTION MOLDING PARAMETERS	NOMINAL VALUES (ENGLISH)
DRYING TEMPERATURE	248 °F
DRYING TIME	3.0 HR
REAR TEMPERATURE	410 to 446 °F
MIDDLE TEMPERATURE	446 to 464 °F
FRONT TEMPERATURE	464 to 482 °F
NOZZLE TEMPERATURE	482 to 500 °F
MOLD TEMPERATURE	140 to 176 °F
INJECTION PRESSURE	8530 to 14200 psi
SCREW SPEED	40 to 70 rpm

#### COMPUTER COMPONENTS, APPLIANCES

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Remark: The values presented on the above are typical laboratory averages. All data generated is based on natural material.

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