

# Dayson Polymers, LLC

## TRILOY® 210 Heat Resistant

### Acrylonitrile Butadiene Styrene & PC Alloy

Property	Test Condition	Nominal Values (English)	Test Method
<b>Physical</b>			
Density – Specific Gravity	sp gr 23/23°C	1.13	ASTM 792
Melt Flow Rate	250°C/5.0 kg	12 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		8,250 psi	ASTM D638
Tensile Elongation @ Break	%	110	ASTM D638
Flexural Modulus		312,914 psi	ASTM D790
Flexural Strength		11,800 psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125in)	ft-lb/in	13.78	ASTM D256
<b>Hardness</b>			
Rockwell Hardness	R-Scale	118	ASTM D785
<b>Thermal</b>			
DTUL @ 264 psi - Unannealed		230 °F	ASTM D648
CLTE, Flow	in/in/°F	4.1E-005	ASTM D696
<b>Electrical</b>			
Volume Resistivity		5.0E+016 ohm-cm	ASTM D257
Dielectric Strength	V/mil	635	ASTM D149
Dielectric Constant	1000000 Hz	3.000	ASTM D150
Dissipation Factor	1000000 Hz	0.0090	ASTM D150
Arc Resistance	sec	123	ASTM D495
<b>Ignition Characteristics</b>			
Flame Rating – UL (0.0625in)		HB	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 194 °F
INJECTION PRESSURE	9960 to 15600 psi
SCREW SPEED	40 to 70 rpm

#### AUTOMOTIVE EXTERIOR PARTS, AUTOMOTIVE INTERIOR PARTS, STRUCTURAL PARTS

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Remark: The values presented on the above are typical laboratory averages. All data generated is based on natural material. To the best of our knowledge the information contained in this publication is accurate, however, we do not assume any liability whatsoever for the accuracy or completeness of such information. Since we have no control over the use to which others may put our product, we cannot guarantee that results the same as those described in this publication will be obtained. The buyer assumes sole responsibility for results obtained in reliance upon this publication. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves as to such suitability and they can meet all applicable safety and health standards.