

# Dayson Polymers, LLC

## TRIEX® POLYCARBONATE 3022L1 Lens Grade

Property	Test Condition	Nominal Values (English)	Test Method
<b>Physical</b>			
Density – Specific Gravity	sp gr 23/23°C	1.20	ASTM 792
Mold Shrink, Linear-Flow (0.118in)	in/in	0.0040 to 0.0070	ASTM 955
Water Absorption @ 24 hours	%	.15	ASTM D570
<b>Mechanical</b>			
Tensile Strength @ Yield		10,100 psi	ASTM D638
Tensile Elongation @ Yield	%	110	ASTM D638
Flexural Modulus		319,725 psi	ASTM D790
Flexural Strength @ Yield		13,100 psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.500in)	ft-lb/in	1.65	ASTM D256
Notched Izod Impact (0.125in)	ft-lb/in	15.61	ASTM D256
<b>Hardness</b>			
Rockwell Hardness	R-Scale	120	ASTM D785
<b>Thermal</b>			
DTUL @ 264 psi - Unannealed		275 °F	ASTM D648
DTUL @ 66 psi - Unannealed		295 °F	ASTM D648
<b>Electrical</b>			
Volume Resistivity		4.0E+016 ohm-cm	ASTM D257
Dielectric Strength	V/mil	762	ASTM D149
Dielectric Constant	1000000 Hz	2.850	ASTM D150
Dissipation Factor	1000000 Hz	0.0092	ASTM D150
Arc Resistance	sec	120	ASTM D495
<b>Ignition Characteristics</b>			
Flame Rating – UL		V-2	UL94

### PROCESSING INFORMATION

INJECTION MOLDING PARAMETERS	NOMINAL VALUES (ENGLISH)
DRYING TEMPERATURE	248 °F
DRYING TIME	6.0 HR
REAR TEMPERATURE	464 to 536 °F
MIDDLE TEMPERATURE	518 to 590 °F
FRONT TEMPERATURE	518 to 590 °F
NOZZLE TEMPERATURE	518 to 572 °F
PROCESSING (MELT) TEMP	518 to 590 °F
MOLD TEMPERATURE	158 to 230 °F
INJECTION PRESSURE	11400 to 19900 psi

HF: High Flow, IR: Ice Clear and Releasing Agent, U: UV-Stabilized,  
-02: Blue Tinted Grade

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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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