

# Dayson Polymers, LLC

## TRIBIT® 1500N Flame Retardant

### Polybutylene Terephthalate

Property	Test Condition	Nominal Values (English)	Test Method
<b>Physical</b>			
Density – Specific Gravity	sp gr 23/23°C	1.42	ASTM 792
Melt Flow Rate	250°C/5.0kg	110 g/10min	ASTM D1238
Mold Shrink, Linear-Flow (0.118in)	in/in	0.013 to 0.018	ASTM 955
Water Absorption @ 24 hours	%	.080	ASTM D570
<b>Mechanical</b>			
Tensile Strength		7,970 psi	ASTM D638
Tensile Elongation @ Break	%	40	ASTM D638
Flexural Modulus		355,584 psi	ASTM D790
Flexural Strength		12,100 psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.500in)	ft-lb/in	0.83	ASTM D256
Notched Izod Impact (0.125in)	ft-lb/in	1.10	
<b>Hardness</b>			
Rockwell Hardness	R-Scale	118	ASTM D785
<b>Thermal</b>			
DTUL @ 264 psi - Unannealed		329 °F	ASTM D648
DTUL @ 66 psi - Unannealed		158 °F	
Melting Point		439 °F	
CLTE, Flow	in/in/°F	5.0E-005	ASTM D696
Specific Heat	Btu/lb/°F	0.600	ASTM C351
<b>Electrical</b>			
Volume Resistivity		1.0E+016 ohm-cm	ASTM D257
Dielectric Strength	V/mil	457	ASTM D149
Dielectric Constant	1000000 Hz	3.200	ASTM D150
Dissipation Factor	1000000 Hz	0.0200	ASTM D150
Arc Resistance	0.0310in	71.0 sec	ASTM D495
<b>Ignition Characteristics</b>			
Flame Rating – UL (0.0310in)		V-0	UL94
Flame Rating – UL (0.125in)		V-0	UL94

#### PROCESSING INFORMATION

INJECTION MOLDING PARAMETERS	NOMINAL VALUES (ENGLISH)
DRYING TEMPERATURE	248 °F
DRYING TIME	5.0 HR
REAR TEMPERATURE	455 °F
MIDDLE TEMPERATURE	464 °F
FRONT TEMPERATURE	464 °F
NOZZLE TEMPERATURE	473 °F
PROCESSING (MELT) TEMP	482 to 509 °F
MOLD TEMPERATURE	104 to 176 °F
INJECTION PRESSURE	4260 to 5680 psi
SCREW SPEED	80 rpm

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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.