

Dayson Polymers, LLC
TRIBIT® 1500GN30 Glass Reinforced/Flame Retardant

Polybutylene Terephthalate

Property	Test Condition	Nominal Values (English)	Test Method
Physical			
Density – Specific Gravity	sp gr 23/23°C	1.59	ASTM 792
Melt Flow Rate	250°C/5.0kg	43 g/10min	ASTM D1238
Mold Shrink, Linear-Flow (0.118in)	in/in	0.0020 to 0.012	ASTM 955
Water Absorption @ 24 hours	%	0.0070	ASTM D570
Mechanical			
Tensile Strength		17,800 psi	ASTM D638
Tensile Elongation @ Break	%	5.0	ASTM D638
Flexural Modulus		1,166,314 psi	ASTM D790
Flexural Strength		24,900 psi	ASTM D790
Impact			
Notched Izod Impact (0.500in)	ft-lb/in	1.38	ASTM D256
Notched Izod Impact (0.125in)	ft-lb/in	1.65	
Hardness			
Rockwell Hardness	R-Scale	120	ASTM D785
Thermal			
DTUL @ 264 psi - Unannealed		410 °F	ASTM D648
DTUL @ 66 psi - Unannealed		437 °F	
Specific Heat	Btu/lb/°F	0.270	ASTM C351
CLTE, Flow	in/in/°F	1.7E-005	ASTM D696
Electrical			
Volume Resistivity		1.0E+016 ohm-cm	ASTM D257
Dielectric Strength	V/mil	508	ASTM D149
Dielectric Constant	1000000 Hz	3.200	ASTM D150
Dissipation Factor	1000000 Hz	0.016	ASTM D150
Arc Resistance	sec	110	ASTM D495
Ignition Characteristics			
Flame Rating – UL (0.0313in)		V-0	UL94
Flame Rating – UL (0.0300in)		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	473 °F
FRONT TEMPERATURE	473 °F
NOZZLE TEMPERATURE	482 °F
PROCESSING (MELT) TEMP	482 to 509 °F
MOLD TEMPERATURE	104 to 176 °F
INJECTION PRESSURE	5680 TO 7110 psi
SCREW SPEED	80 rpm

30% GLASS REINFORCED/FLAME RETARDANT

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