Dayson Polymers, LLC

TRIBIT® 1500G30 Glass Reinforced

Polybutylene Terephthalate

Property	Test Condition	Nominal Values (English)	Test Method
Physical			
Density – Specific Gravity	sp gr 23/23°C	1.52	ASTM 792
Melt Flow Rate	250°C/5.0kg	38 g/10min	ASTM D1238
Mold Shrink, Linear-Flow (0.118in)	in/in	0.0020 to 0.012	ASTM 955
Water Absorption @ 24 hours	%	.070	ASTM D570
Mechanical			
Tensile Strength		19,200 psi	ASTM D638
Tensile Elongation @ Break	%	5.0	ASTM D638
Flexural Modulus		1,137,867 psi	ASTM D790
Flexural Strength		28,400 psi	ASTM D790
Impact			
Notched Izod Impact (0.500in)	ft-lb/in	1.65	ASTM D256
Notched Izod Impact (0.125in)	ft-lb/in	2.02	
Hardness			
Rockwell Hardness	R-Scale	120	ASTM D785
Thermal			
DTUL @ 264 psi - Unannealed		419 °F	ASTM D648
DTUL @ 66 psi - Unannealed		446 °F	
Melting Point		439 °F	
CLTE, Flow	in/in/°F	1.7E-005	ASTM D696
Specific Heat	BTU/lb/°F	0.400	ASTM C351
Electrical			
Volume Resistivity		1.0E+016 ohm-cm	ASTM D257
Dielectric Strength	V/mil	635	ASTM D149
Dielectric Constant	1000000 Hz	3.200	ASTM D150
Dissipation Factor	1000000 Hz	0.0200	ASTM D150
Arc Resistance	sec	130	ASTM D495
Ignition Characteristics			
Flame Rating – UL (0.0313in)		HB	UL94
Flame Rating – UL (0.0620in)		HB	UL94
Flame Rating – UL (0.0240in)		HB	UL94

PROCESSING INFORMATION

INJECTION MOLDING PARAMETERS	NOMINAL VALUES (ENGLISH)
DRYING TEMPERATURE	248 °F
DRYING TIME	5.0 HR
REAR TEMPERATURE	473 °F
MIDDLE TEMPERATURE	482 °F
FRONT TEMPERATURE	482 °F
NOZZLE TEMPERATURE	491 °F
PROCESSING (MELT) TEMP	482 to 509 °F
MOLD TEMPERATURE	104 to 176 °F
INJECTION PRESSURE	7110 to 9950 psi
SCREW SPEED	80 rpm

30% GLASS REINFORCED

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.