

TRIBIT 1500G20 GRADE

DESCRIPTION

- TRIBIT is the registered trademark of polybutylene terephthalate resin manufactured by Samyang Corporation. TRIBIT polybutylene terephthalate resins offer excellent mechanical properties, electrical performance, chemical resistance and processability, which allows it to be widely used for automotive, electrical and electronic industries.
- TRIBIT 1500G20 is glass reinforced grade, which offers a unique combination of properties-high strength, stiffness, excellent dimensional stability, outstanding chemical resistance and heat resistance, and good electrical properties.

CHARACTERISTICS

- High strength, rigidity
- Minimal moisture absorption
- Exceptional dimensional stability
- Resistance to a wide range of chemicals, oils, grease and solvents
- Excellent electrical properties
- Fast injection-molding cycles

APPLICATIONS

- TRIBIT 1500G20 resin grade is used in a wide range of automotive, electrical and electronic applications.
 - * Automotive distributor caps
 - * Motor housings
 - * Coil bobbins and coil cases
 - * Appliance housings

TYPICAL DATA OF TRIBIT 1500G20 GRADE

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	—	D792	1.50
Water Absorption (24 hours at 23°C)	%	D570	0.08
Melt Flow Rate (250°C, 5kg)	g/10min	D1238	65
MECHANICAL			
Tensile Strength at break	kg _f /cm ²	D638	1,000
Tensile Elongation at break	%	D638	3
Flexural Strength at yield	kg _f /cm ²	D790	1,450
Flexural Modulus	kg _f /cm ²	D790	55,000
Izod Impact Strength, notched, 23°C (1/8")	kg _f ·cm/cm	D256	6
Rockwell Hardness	R scale	D785	119
THERMAL			
HDT, 4.6 kg _f /cm ²	°C	D648	225
HDT, 18.6 kg _f /cm ²	°C	D648	200
Coefficient of Linear Thermal Expansion	mm/mm/°C	D696	3X10 ⁻⁵
ELECTRICAL			
Volume Resistivity	Ω·cm	D257	10 ¹⁶
Dielectric Strength	kV/mm	D149	21
Dielectric Constant	—	D150	3.2
Dissipation Factor	—	D150	0.02
ARC Resistance	Sec	D495	150
OTHERS			
UL-94 Flammability (0.84mm thickness)	—	(UL 94)	HB
Mold Shrinkage (3mm thickness)	%	D955	0.2~1.2

The figures listed in this table are typical values obtained under the standard test methods and may not be applicable for products that are under different application condition.

PROCESSING GUIDE FOR TRIBIT 1500G20 GRADE

General processing conditions for TRIBIT 1500G20 are shown below.
Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	℃	120~130
Drying Time	hr	3~5
Moisture Content, Max	%	0.02
Melt Temperature	℃	250~270
Nozzle Temperature	℃	245~265
Front Temperature	℃	250~270
Middle Temperature	℃	245~265
Rear Temperature	℃	240~260
Mold Temperature	℃	60~90
Back Pressure	%	<70
Screw Speed	%	<60
Injection Pressure	%	<70
Injection Speed	%	<50
Hold Pressure	%	<50
Injection Cushion	mm	3~6

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