

TRIBIT 1500GN15 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 processabilty, which allows it to be widely used for automotive, electrical and electronic industries.
- TRIBIT 1500GN15 is flame retarded, glass reinforced grade, which offers a unique combination of properties-high strength, modulus, heat resistance and excellent dimensional stability. Also this grade is rated V-0 in the UL94 flammability test in part thickness as low as 1/16in.

CHARACTERISTICS

- High strength, rigidity
- Excellent heat resistance
- Good flammability
- 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 1500GN15 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





PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity Water Absorption (24 hours at 23°ℂ) Melt Flow Rate (250°ℂ, 5kg)	- % g/10min	D792 D570 D1238	1.57 0.08 71
MECHANICAL			
Tensile Strength at break Tensile Elongation at break Flexural Strength at yield Flexural Modulus Izod Impact Strength, notched, 23℃ (1/8") Rockwell Hardness	kg _f /cm² % kg _f /cm² kg _f ·cm/cm R scale	D638 D638 D790 D790 D256 D785	930 4 1,380 56,000 4 120-
THERMAL			
HDT, 18.6 kg ₁ /cm² HDT, 4.6 kg ₁ /cm² Coefficient of Linear Thermal Expansion	°C °C mm/mm/°C	D648 D648 D696	205 203 3X10 ⁻⁵
ELECTRICAL			
Volume Resistivity Dielectric Strength Dielectric Constant Dissipation Factor ARC Resistance	Ω·cm kV/mm - - Sec	D257 D149 D150 D150 D495	10 ¹⁶ 20 3.1 0.02 120
OTHERS			
UL-94 Flammability (1/16" thickness) Mold Shrinkage (3mm thickness)	- %	(UL 94) D955	V-0 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 1500GN15 GRADE**



General processing conditions for TRIBIT 1500GN15 are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS	
Drying Temperature	${\mathbb C}$	120~130	
Drying Time	hr	3~5	
Moisture Content, Max	%	0.02	
Melt Temperature	°C	250~270	
Nozzle Temperature	${\mathbb C}$	245~265	
Front Temperature	$^{\circ}$	250~270	
Middle Temperature	$^{\circ}$	245~265	
Rear Temperature	$^{\circ}$	240~260	
Mold Temperature	°C	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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