

TECHNICAL DATASHEET

TRIBIT[®] 1501N

PBT

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	-	D792	1.38
Water Absorption (24 hours at 23℃)	%	D570	0.08
Melt Flow Rate (235℃/2.16kg)	g/10min	D1238	16
MECHANICAL			
Tensile Strength at yield	kg _f /cm ²	D638	550
Tensile Elongation at break	%	D638	40
Flexural Strength at yield	kg _f /cm ²	D790	850
Flexural Modulus	kg _f /cm ²	D790	28,000
Izod Impact Strength, notched, 23℃ (1/8")	kg _f ·cm/cm	D256	3
Rockwell Hardness	R scale	D785	118
THERMAL			
HDT, 18.6 kgf/cm ²	℃	D648	62
Coefficient of Linear Thermal Expansion	mm/mm/℃	D696	9X10 ⁻⁵
ELECTRICAL			
Volume Resistivity	Ω·cm	D257	1X10 ¹⁶
Dielectric Strength	kV/mm	D149	18
Dielectric Constant	-	D150	3.2
Dissipation Factor	-	D150	0.02
ARC Resistance	sec	D495	71
OTHERS			
UL-94 Flammability (0.81mm thickness)	-	(UL 94)	V-2
Mold Shrinkage	%		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

TRIBIT® 1501N GRADE

PBT

- General processing conditions for TRIBIT1501N are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	℃	60
Drying Time	hr	3-5
Moisture Content, Max	%	0.02
Melt Temperature	℃	240~250
Nozzle Temperature	℃	250~260
Front Temperature	℃	245~255
Middle Temperature	℃	245~255
Rear Temperature	℃	235~245
Mold Temperature	℃	60~80
Back Pressure	MPa	<70
Screw Speed	rpm	<60
Injection Pressure	MPa	<70
Injection Speed	%	<50
Hold Pressure	MPa	<50
Injection Cushion	mm	3~6

Global Network

HEAD OFFICE

Samyang Corporation
31, Jong-ro 33-gil, Jongno-gu, Seoul, Korea
T. +82-2-740-7747

Chemical Research Center

730, Daedeok-daero, Yuseong-gu, Daejeon, Korea
T. +82-42-865-8114

JEONJU ENGINEERING PLASTIC PLANT

147, Palbok-ro, Deokjin-gu, Jeonju, Korea
T. +82-63-210-6664

SAMYANG ENGINEERING PLASTICS (SHANGHAI) CO., LTD.

No.131, Shuangying Road, Qingpu Industrial Area,
Qingpu County, Shanghai, China
T. +86-21-6922-2270

SAMYANG ENGINEERING PLASTICS (HUNGARY) CO., LTD.

H5100, Jaszbereny, Necso, Telep 1, Hungary
T. +36-21-311-1263

SAMYANG ENGINEERING PLASTICS (VIETNAM) LLC

1 Song Hanh Road, Nhon Trach 6 Industrial Zone, Long Tho
Commune, Nhon Trach District, Dong Nai Province, Vietnam
T. +84-0251-3686-707