

TECHNICAL DATASHEET

TRIBIT[®] 1500G30K

PBT

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	-	D792	1.52
Water Absorption (24 hours at 23°C)	%	D570	0.07
Melt Flow Rate (250°C/5kg)	g/10min	D1238	55
MECHANICAL			
Tensile Strength at yield	kg _f /cm ²	D638	950
Tensile Elongation at break	%	D638	2
Flexural Strength at yield	kg _f /cm ²	D790	1,300
Flexural Modulus	kg _f /cm ²	D790	53,000
Izod Impact Strength, notched, 23°C (1/8")	kg _f ·cm/cm	D256	8
Rockwell Hardness	R scale	D785	120
THERMAL			
HDT, 18.6 kgf/cm ²	°C	D648	200
Coefficient of Linear Thermal Expansion	mm/mm/°C	D696	3X10 ⁻⁵
ELECTRICAL			
Volume Resistivity	Ω·cm	D257	1X10 ¹⁶
Dielectric Strength	kV/mm	D149	25
Dielectric Constant	-	D150	3.2
Dissipation Factor	-	D150	0.02
ARC Resistance	sec	D495	130
OTHERS			
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® 1500G30K GRADE

PBT

- General processing conditions for TRIBIT1500G30K are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	℃	120
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	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