

TECHNICAL DATASHEET

TRIEX[®] SO1-3025LD

PC

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	-	D792	1.20
Water Absorption (24 hours at 23°C)	%	D570	0.15
Melt Flow Rate (300°C, 1.2kg)	g/10min	D1238	15
MECHANICAL			
Tensile Strength at yield	kgf/cm ²	D638	650
Tensile Elongation at break	%	D638	120
Flexural Strength at yield	kgf/cm ²	D790	900
Flexural Modulus	kgf/cm ²	D790	22,000
Izod Impact Strength, notched, 23°C (1/8")	kgf·cm/cm	D256	85
Rockwell Hardness	R scale	D785	120
THERMAL			
HDT, 18.6 kgf/cm ²	°C	D648	126
Coefficient of Linear Thermal Expansion	mm/mm/°C	D696	5.6 x 10 ⁻⁵
ELECTRICAL			
Volume Resistivity	Ω·cm	D257	4E+16
Dielectric Strength	kV/mm	D149	30
Dielectric Constant	-	D150	2.85
Dissipation Factor	-	D150	0.0092
ARC Resistance	sec	D495	120
OTHERS			
Mold Shrinkage (3mm thickness)	%	D955	0.5~0.7

※ 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

TRIREX[®] SO1-3025LD GRADE

PC

- General processing conditions for TRIREXSO1-3025LD 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	℃	290~320
Nozzle Temperature	℃	290~310
Front Temperature	℃	290~310
Middle Temperature	℃	280~300
Rear Temperature	℃	270~290
Mold Temperature	℃	80~100
Back Pressure	MPa	0.3~0.7
Screw Speed	rpm	40~70
Vent Depth	mm	0.02~0.08

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