

TECHNICAL DATASHEET

# TRIREX<sup>®</sup> NH3022S

PC

PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
<b>PHYSICAL</b>			
Specific Gravity	-	D792	1.21
Water Absorption (24 hours at 23°C)	%	D570	0.15
Melt Flow Rate (300°C, 1.2kg)	g/10min	D1238	39
<b>MECHANICAL</b>			
Tensile Strength at yield	kg <sub>f</sub> /cm <sup>2</sup>	D638	700
Tensile Elongation at break	%	D638	160
Flexural Strength at yield	kg <sub>f</sub> /cm <sup>2</sup>	D790	1,000
Flexural Modulus	kg <sub>f</sub> /cm <sup>2</sup>	D790	27,500
Izod Impact Strength, notched, 23°C (1/8")	kg <sub>f</sub> ·cm/cm	D256	5
Rockwell Hardness	R scale	D785	120
<b>THERMAL</b>			
HDT, 18.6 kgf/cm <sup>2</sup>	°C	D648	98
Coefficient of Linear Thermal Expansion	mm/mm/°C	D696	5.6 x 10 <sup>-5</sup>
<b>ELECTRICAL</b>			
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
<b>OTHERS</b>			
UL-94 Flammability (1.5mm thickness)	-	(UL 94)	V-2
Mold Shrinkage (3mm thickness)	%	D955	0.5--.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

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PC

- General processing conditions for TRIREXNH3022S are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	°C	120
Drying Time	hr	3-5
Moisture Content, Max	%	0.02
Melt Temperature	°C	290-320
Nozzle Temperature	°C	290-310
Front Temperature	°C	290-310
Middle Temperature	°C	280-300
Rear Temperature	°C	270-290
Mold Temperature	°C	80-100
Back Pressure	MPa	0.37
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