

TECHNICAL DATASHEET

TRIEX[®] SM1-3022N

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	28
MECHANICAL			
Tensile Strength at yield	kg _f /cm ²	D638	550
Tensile Elongation at break	%	D638	100
Flexural Strength at yield	kg _f /cm ²	D790	850
Flexural Modulus	kg _f /cm ²	D790	22,000
Izod Impact Strength, notched, 23°C (1/8")	kg _f ·cm/cm	D256	65
Rockwell Hardness	R scale	D785	120
THERMAL			
HDT, 18.6 kgf/cm ²	°C	D648	105
Coefficient of Linear Thermal Expansion	mm/mm/°C	D696	5.5 x 10 ⁻⁵
ELECTRICAL			
Volume Resistivity	Ω·cm	D257	4E+16
Dielectric Strength	kV/mm	D149	30
Dielectric Constant	-	D150	2.8
Dissipation Factor	-	D150	0.0082
ARC Resistance	sec	D495	120
OTHERS			
UL-94 Flammability (0.69mm thicknes)	-	(UL 94)	V-0
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[®] SM1-3022N GRADE

PC

- General processing conditions for TRIREXSM1-3022N are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	℃	90~100
Drying Time	hr	3~5
Moisture Content, Max	%	0.02
Melt Temperature	℃	280~310
Nozzle Temperature	℃	280~310
Front Temperature	℃	280~310
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

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