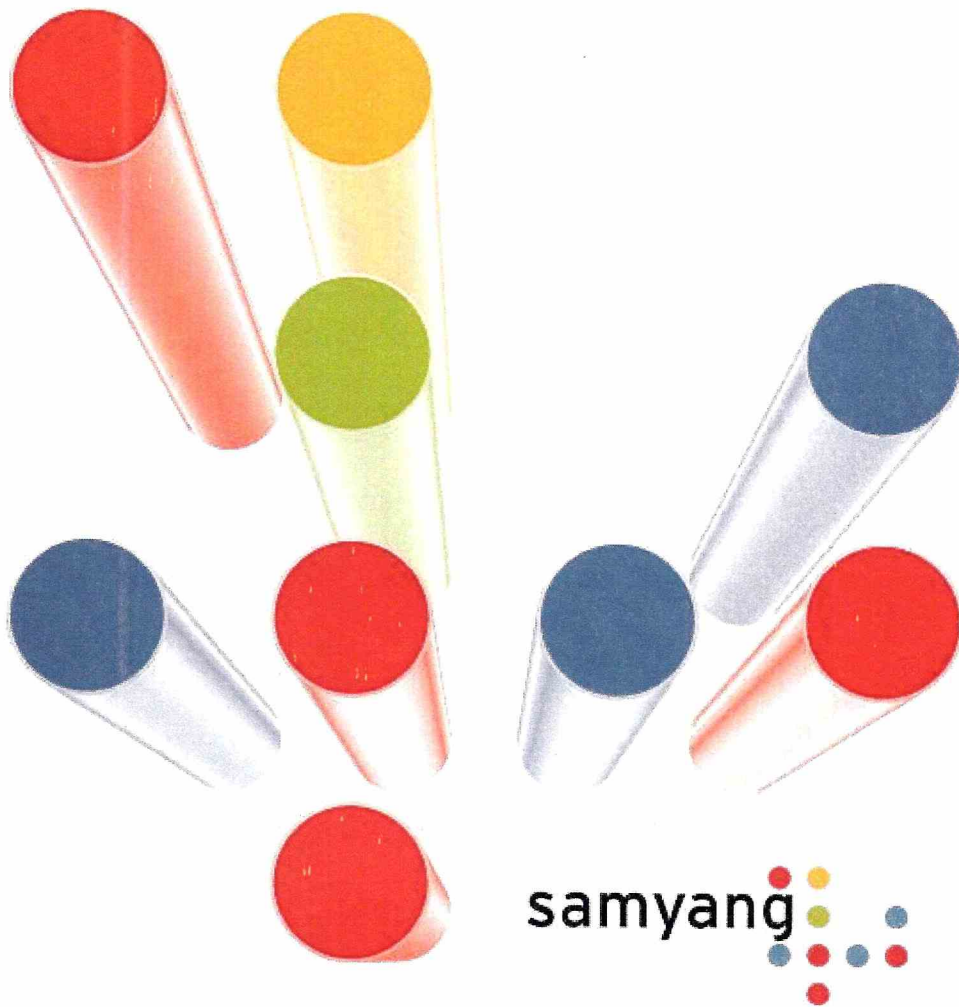


Product Information

**TRIEX<sup>®</sup> 3025N2**

**Polycarbonate Resin**



# TRIEX 3025N2 GRADE



## DESCRIPTION

- TRIEX is the registered trademark of polycarbonate resin manufactured by Samyang Corporation. TRIEX polycarbonate resins offer superior mechanical properties, good dimensional stability and high electrical performance, which allows it to be widely used for electrical, electronic, appliance, automotive and optical industries.
- TRIEX 3025N2 is an UV stabilized polycarbonate resin grade which has a flame resistance in combination with superior physical properties.

## CHARACTERISTICS

- High ultraviolet (UV) stability
- Good flame resistance
- Workable under a wide range of temperature (-100 °C ~ 135 °C)
- High electrical performance
- Good dimensional stability
- Low moisture absorbency

## APPLICATION

- TRIEX 3025N2 resin grade is used mainly in electronics and electric applications, including connectors, lamps parts, light covers.



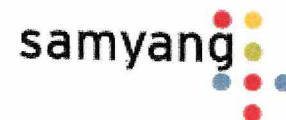
# TYPICAL DATA OF TRIEX 3025N2 GRADE



PROPERTY	UNIT	TEST METHOD	TYPICAL DATA
<b>PHYSICAL</b>			
Specific Gravity	-	D792	1.20
Water Absorption (24 hours at 23 °C)	%	D570	0.15
Melt Flow Rate (300 °C, 1.2 kg)	g/10 min	D1238	10
<b>MECHANICAL</b>			
Tensile Strength at yield	kg <sub>f</sub> /cm <sup>2</sup>	D638	700
Tensile Elongation at break	%	D638	120
Flexural Strength at yield	kg <sub>f</sub> /cm <sup>2</sup>	D790	900
Flexural Modulus	kg <sub>f</sub> /cm <sup>2</sup>	D790	22,000
Izod Impact Strength, notched, 23°C (1/8")	kg <sub>f</sub> ·cm/cm	D256	65
Rockwell Hardness	R scale	D785	120
<b>THERMAL</b>			
HDT, 4.6 kg/cm <sup>2</sup>	°C	D648	144
HDT, 18.6 kg <sub>f</sub> /cm <sup>2</sup>	°C	D648	133
GWFI (1 mm)	°C	IEC60695-2-12	960
GWFI (3 mm)	°C	IEC60695-2-12	960
<b>ELECTRICAL</b>			
Volume Resistivity	Ω·cm	D257	4 x 10 <sup>16</sup>
Dielectric Strength	kV/mm	D149	30
Dielectric Constant		D150	2.80
Dissipation Factor		D150	0.0082
<b>OTHERS</b>			
UL-94 Flammability (1/8" thickness)	-	(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 FOR TRIEX 3025N2 GRADE



- General processing conditions for TRIEX 3025N2 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	0.3 ~ 0.7
Screw Speed	rpm	40 ~ 70
Vent Depth	mm	0.02 ~ 0.08



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