

TRIREX 3025N2 GRADE

DESCRIPTION

- TRIREX is the registered trademark of polycarbonate resin manufactured by Samyang Corporation. TRIREX 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.
- TRIREX 3025N2 is a specially designed polycarbonate resin grade which has a flame resistance in combination with superior physical properties

CHARACTERISTICS

- Good flame resistance
- Workable under a wide range of temperature (-100 $^{\circ}$ C ~ 135 $^{\circ}$ C)
- High electrical performance
- Good dimensional stability
- Low moisture absorbency

APPLICATIONS

 TRIREX 3025N2 resin grade is used mainly in electronics and electric applications, including connector, lamps parts, light covers

TYPICAL DATA OF TRIREX 3025N2 GRADE



PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity Water Absorption (24 hours at 23℃) Melt Flow Rate (270℃, 1.2kg)	- % g/10min	D792 D570 D1238	1.20 0.15 120
MECHANICAL			
Tensile Strength at yield Tensile Elongation at break Flexural Strength at yield Flexural Modulus Izod Impact Strength, notched, 23℃ (1/8") Rockwell Hardness	kg _i /cm² % kg _i /cm² kg _i /cm² kg _i ·cm/cm R scale	D638 D638 D790 D790 D256 D785	670 120 860 22,500 80 120
THERMAL			
HDT, 4.6 kg _f /cm² HDT, 18.6 kg _f /cm² Coefficient of Linear Thermal Expansion	°C ™/mm/°C	D648 D648 D696	144 135 5.5X10 ⁻⁵
ELECTRICAL			
Volume Resistivity Dielectric Strength Dielectric Constant Dissipation Factor ARC Resistance	Ω·cm kV/mm - - sec	D257 D149 D150 D150 D495	4X10 ¹⁶ 30 2.80 0.0082 120
OTHERS			
UL-94 Flammability (1/8" thickness) Mold Shrinkage (3mm thickness)	<u> </u>	(UL 94) D955	V-0 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 **TRIREX 3025N2 GRADE**



General processing conditions for TRIREX 3025N2 are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS	
Drying Temperature	${\mathbb C}$	120	
Drying Time	hr	3~5	
Moisture Content, Max	%	0.02	
Melt Temperature	°C	290 ~ 320	
Nozzle Temperature	$^{\circ}$	290 ~ 310	
Front Temperature	$^{\circ}$	290 ~ 310	
Middle Temperature	$^{\circ}$	280 ~ 300	
Rear Temperature	$^{\circ}$	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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