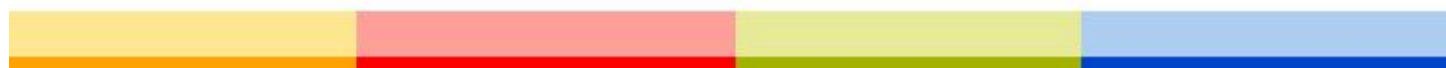


Product Information

TRIEX[®]3025G20 Polycarbonate Resin





TRIREX 3025G20 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 3025G20 is a 20% glass fiber reinforced polycarbonate resin which has a superior dimension stability in combination with good physical property.

CHARACTERISTICS

- High dimension stability
- Workable under a wide range of temperatures (-100 °C ~ 135 °C)
- High electrical performance
- Corrosion resistance

APPLICATIONS

- TRIREX 3025G20 resin grade is used mainly in electronics and electric applications including connector, drill housing, and deflection yoke etc.

TYPICAL DATA OF TRIEX 3025G20 GRADE



PROPERTY	UNIT	ASTM METHOD	TYPICAL DATA
PHYSICAL			
Specific Gravity	-	D792	1.34
Water Absorption (24 hours at 23°C)	%	D570	0.12
Melt Flow Rate (300°C, 1.2kg)	g/10min	D1238	6
MECHANICAL			
Tensile Strength at yield	kg _f /cm ² , Mpa, psi	D638	1,100, 108, 15600
Tensile Elongation at break	%	D638	3
Flexural Strength at yield	kg _f /cm ² , Mpa, psi	D790	1,600, 157, 22800
Flexural Modulus	kg _f /cm ² , Mpa, psi	D790	58,000, 5680, 824800
Izod Impact Strength, notched, 23°C (1/8")	kg _f ·cm/cm, J/m, ft*lb/in	D256	18, 177, 3
Rockwell Hardness	R scale	D785	122
THERMAL			
HDT, 4.6 kg _f /cm ²	°C, °F	D648	151, 304
HDT, 18.6 kg _f /cm ²	°C, °F	D648	146, 295
Coefficient of Linear Thermal Expansion	mm/mm/°C	D696	2.3X10 ⁻⁶
ELECTRICAL			
Volume Resistivity	Ω·cm	D257	4X10 ¹⁶
Dielectric Strength	kV/mm	D149	31
Dielectric Constant	-	D150	3.11
Dissipation Factor	-	D150	0.0097
ARC Resistance	sec	D495	120
OTHERS			
UL-94 Flammability (1.5mm thickness)	-	(UL 94)	V-0
Mold Shrinkage (3mm thickness)	%	D955	0.3~0.5

※ 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 3025G20 GRADE



- General processing conditions for TRIREX 3025G20 are shown below. Drying prior to processing is essential to ensure desired appearance and property performance.

SPECIFICATION	UNIT	CONDITIONS
Drying Temperature	°C, °F	120, 250
Drying Time	hr	3 ~ 4
Moisture Content, Max	%	
Melt Temperature	°C, °F	310~330, 590~625
Nozzle Temperature	°C, °F	300~320, 570~610
Front Temperature	°C, °F	300~320, 570~610
Middle Temperature	°C, °F	290~310, 555~590
Rear Temperature	°C, °F	280~300, 535~570
Mold Temperature	°C, °F	80~110, 175~230
Back Pressure	Mpa, psi	350~700, 50.8~101.5
Screw Speed	rpm	50 ~ 70
Vent Depth	mm	

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