Product Information

TRIREX ® SF3200GNH10

Polycarbonate Resin

(Glass fiber reinforced Flame resistant grade)

samyang AM R&D CENTER

63-2 Hwaam-dong, Yusung-gu
Daejeon, Korea
Tel. (82) 42-865 -8043
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DATA SHEET OF TRIREX SF3200GNH10

PROPERTY	UNIT	TYPICAL DATA	ASTM METHOD
PHYSICAL			
Specific Gravity	-	1.26	D792
Water Absorption (24 hours at 23℃)	%	0.12	D570
Mold Shrinkage (3mm thickness)	%	0.3~0.5	D955
Melt Flow Rate (300℃, 1.2kg)	g/10min	12	D1238
MECHANICAL			
Tensile Strength at yield	kg_f/cm^2	720	D638
Tensile Elongation at break	%	8	D638
Flexural Strength at yield	kg_f/cm^2	1,000	D790
Flexural Modulus	kg_f/cm^2	30,000	D790
Hardness, Rockwell R	-	120	D785
IMPACT			
Izod Impact Strength, notched, 23℃ (1/8")	$kg_f \cdot cm/cm$	8	D256
Izod Impact Strength, notched, -20℃ (1/8")	$kg_f \cdot cm/cm$	-	D256
THERMAL			
HDT, 18.6 kg_f/cm^2	℃	136	D648
Coefficient of Linear Thermal Expansion	mm/mm/℃	2.3×10^{-5}	D696
ELECTRICAL			
Volume Resistivity	Ω·cm	4×10^{16}	D257
Dielectric Strength	kV/mm	31	D149
ARC Resistance	sec	120	D495
FLAME CHARACTERISTICS			
UL-94 Flammability (1.5mm thickness)	-	V-0	(UL 94)
(2.5mm thickness)	-	V-0, 5VB	(UL 94)
(3.0mm thickness)	-	V-0, 5VA	(UL 94)

※ 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.

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PROCESSING CONDITION FOR TRIREX SF3200GNH10

General processing conditions for TRIREX SF3200GNH10 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 ~ 4
Moisture Content, Max	%	0.02
Melt Temperature	°C	300 ~ 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 ~ 110
Injection Pressure	MPa	70 ~ 140
Injection Speed	%	50 ~ 80 (moderate to fast)
Injection Cushion	mm	3 ~ 6
Hold Pressure	MPa	35 ~ 60
Back Pressure	MPa	0.4 ~ 0.6
Screw Speed	rpm	50 ~ 70
Vent Depth	mm	3 ~ 6

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UL YELLOW CARD

QMFZ2 Component - Plastics **E121254**

SAMYANG CORPORATION

407 3-GA PALBOK-DONG, CHEONJU CHEONBUK 560-200 KR

SF3200GNH(#)

Polycarbonate (PC), "TRIREX", furnished as finished parts

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	1.5	V-0	-	-	80	80	80
	2.5	V-0,5VB	-	-	80	80	80
	3.0	V-0,5VA	-	-	80	80	80

Comparative Tracking Index (CTI): -
High-Voltage Arc Tracking Rate (HVTR): -
Dielectric Strength (kV/mm): -
Dimensional Stability (%): -
High Volt, Low Current Arc Resis (D495): -
Volume Resistivity (10xohm-cm): -

(#) - Represents a two digit number 10-40 incl.

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

Report Date: 7/8/2002 **Underwriters Laboratories Inc®** **Component Plastics**

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