

**TRIREX® Compound HZ3022G20**

Samyang Corporation - Polycarbonate

## General Information

**Product Description**

Polycarbonates provides excellent mechanical properties, dimensional stability, and good electrical property. Widely used in various industrial fields such as electronics, automobiles.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• Electrical/Electronic Applications

 Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.31		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.118 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.12	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Yield)	12800	psi	ASTM D638
Flexural Modulus	640000	psi	ASTM D790
Flexural Strength (Yield)	19900	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	2.9	ft·lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness	122		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	268	°F	ASTM D648
CLTE - Flow	1.5E-6	in/in/°F	ASTM D696
<b>Electrical</b>			
Volume Resistivity	4.0E+16	ohms·cm	ASTM D257
Dielectric Strength	480	V/mil	ASTM D149
Dielectric Constant	3.11		ASTM D150
Dissipation Factor	9.7E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
<b>Flammability</b>			
Flame Rating (0.030 in)	HB		UL 94

