TRIREX® Compound HV3022G30

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 [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	2.0	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
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	14200	psi	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	996000	psi	ASTM D790
Flexural Strength (Yield)	21300	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	2.9	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness	122		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	255	°F	ASTM D648
CLTE - Flow	1.3E-6	in/in/°F	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
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
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.030 in)	HB		UL 94