

TRIEX® Compound TH3022N

Samyang Corporation - Polycarbonate

General Information

Product Description

Si-PC (Siloxane PC) is as polycarbonate-polysiloxane copolymer, having excellent low temperature ductility, impact toughness and chemical resistance.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Flame Retardant
Uses	• Automotive Applications • Electrical/Electronic Applications • Television Housings
Forms	• Pellets

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10700	psi	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	356000	psi	ASTM D790
Flexural Strength (Yield)	14200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	208	°F	ASTM D648
CLTE - Flow	3.1E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms·cm	ASTM D257
Dielectric Strength	760	V/mil	ASTM D149
Dielectric Constant	2.85		ASTM D150
Dissipation Factor	9.2E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.08 in)	V-0		UL 94

