

TRIEX® Compound 3027R

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	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.118 in)	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)	8530	psi	ASTM D638
Tensile Elongation (Yield)	180	%	ASTM D638
Flexural Modulus	313000	psi	ASTM D790
Flexural Strength (Yield)	11400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	14	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	120		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	273	°F	ASTM D648
CLTE - Flow (41 to 45°F)	2.8E-6 to 3.9E-6	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 (0.020 in)	V-2		UL 94

