



TRIREX® Compound VA3010NH

Samyang Corporation - Polycarbonate

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Flame Retardant		
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (300°C/1.2 kg)	32	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7820	psi	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	384000	psi	ASTM D790
Flexural Strength (Yield)	12800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.8	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 (66 psi, Unannealed)	291	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	271	°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	2.80		ASTM D150
Dissipation Factor	8.2E-3		ASTM D150
Arc Resistance	90.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		5VB	

Notes

¹ Typical properties: these are not to be construed as specifications.