

TRIREX® Compound M3020PN

Samyang Corporation - Polycarbonate

General Information
Product Description

This is one of the Metalinus® product manufactured by Samyang Corporation.

Metalinus® gives the metal effect to plastics by using metal pigments as compounding additives, without spray(paint) coating progress. It is an eco-friendly material used in premium household appliances, automotive applications, building materials in various colors.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Flame Retardant • Good Light Diffusion
Uses	• Automotive Applications • Electrical Housing • Office Automation Equipment • Building Materials • Electrical/Electronic Applications
Appearance	• Metallized - Colors
Forms	• Pellets

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	30	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)	8820	psi	ASTM D638
Tensile Elongation (Break)	90	%	ASTM D638
Flexural Modulus	327000	psi	ASTM D790
Flexural Strength (Yield)	12800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	12	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)	212	°F	ASTM D648
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	90.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.016 in	V-2		
0.030 in	V-0		
0.08 in	5VB		
0.12 in	5VA		

