

**TRIREX® Compound M3025H**

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
Uses	• Electrical/Electronic Applications

 Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	14	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
<b>Mechanical</b>			
Tensile Strength (Yield)	8530	psi	ASTM D638
Tensile Elongation (Yield)	120	%	ASTM D638
Flexural Modulus	284000	psi	ASTM D790
Flexural Strength (Yield)	12100	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	13	ft·lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness	120		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	266	°F	ASTM D648
CLTE - Flow	3.1E-6	in/in/°F	ASTM D696
<b>Electrical</b>			
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
<b>Flammability</b>			
Flame Rating			UL 94
0.028 to 0.030 in		HB	
0.03 in		V-2	

