

# TRILOY® 210NHF

Samyang Corporation - Polycarbonate + ABS

Tuesday, January 17, 2023

## General Information

### Product Description

TRILOY® is the PC based compound resin, designed to meet customer's challenging application requirements.

TRILOY® has good impact resistance, heat resistance, and excellent processability, which makes it suitable for precision parts.

### General

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

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	26	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Water Absorption (24 hr, 23°C)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	61.8	MPa	ASTM D638
Tensile Elongation (Break)	90	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength (Yield)	83.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	540	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	90.0	°C	ASTM D648
CLTE - Flow	8.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+16	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant	3.00		ASTM D150
Dissipation Factor	9.0E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.7 mm)	V-0		UL 94
	5VB		

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.