

TRILOY® HF200S

Samyang Corporation - Polycarbonate + ABS

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 • White Goods & Small Appliances
Forms	• Pellets

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.08		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	38	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)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8960	psi	ASTM D638
Tensile Elongation (Break)	90	%	ASTM D638
Flexural Modulus	370000	psi	ASTM D790
Flexural Strength (Yield)	11400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	10	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	176	°F	ASTM D648
CLTE - Flow	4.1E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+16	ohms·cm	ASTM D257
Dielectric Strength	640	V/mil	ASTM D149
Dielectric Constant	3.00		ASTM D150
Dissipation Factor	9.0E-3		ASTM D150
Arc Resistance	123	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	• V-0 • 5VB		UL 94

