

TRILOY® S460G15

Samyang Corporation - Polycarbonate + PET

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
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Forms	• Pellets

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.15	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	12800	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	512000	psi	ASTM D790
Flexural Strength (Yield)	18500	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	0.92	ft-lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	121		ASTM D785
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	270	°F	ASTM D648
CLTE - Flow	4.6E-5	in/in/°F	ASTM D696
Electrical			
Volume Resistivity	3.0E+16	ohms·cm	ASTM D257
Dielectric Strength	580	V/mil	ASTM D149
Dielectric Constant	3.00		ASTM D150
Dissipation Factor	9.0E-3		ASTM D150
Arc Resistance	121	sec	ASTM D495
Flammability			
Flame Rating (0.031 in)	V-2		UL 94

