

TRILOY® 170

Samyang Corporation - Polycarbonate + PBT

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
Uses	• Automotive Applications • Automotive Exterior Parts	• Automotive Interior Parts • Electrical/Electronic Applications	• White Goods & Small Appliances
Forms	• Pellets		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/3.8 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	7.0E-3 to 0.012	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8960	psi	ASTM D638
Tensile Elongation (Break)	150	%	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)	14	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	239	°F	ASTM D648
CLTE - Flow	4.6E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+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	118	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

