

## Technical Data

### 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		
Literature <sup>1</sup>	• <a href="#">Technical Datasheet</a>		
UL Yellow Card <sup>2</sup>	• <a href="#">E121254-100632488</a> • <a href="#">E366374-101723937</a> • <a href="#">E257054-103268059</a>		
Search for UL Yellow Card	• <a href="#">Samyang Corporation</a> • <a href="#">TRILOY®</a>		
Availability	• Asia Pacific	• Europe	• North America
Uses	• Electrical/Electronic Applications	• White Goods & Small Appliances	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.16	1.16 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	33 g/10 min	33 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.118 in (3.00 mm))	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ASTM D955
Water Absorption (24 hr, 73°F (23°C))	0.12 %	0.12 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	6120 psi	42.2 MPa	ASTM D638
Tensile Elongation (Yield)	20 %	20 %	ASTM D638
Flexural Modulus	256000 psi	1770 MPa	ASTM D790
Flexural Strength (Yield)	9250 psi	63.7 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	8.8 ft-lb/in	470 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness	100	100	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	ASTM D648
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	V-0	V-0	UL 94

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.



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**Where to Buy**

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**Supplier****Samyang Corporation**

Seoul, Seoul South Korea

**Web:** <https://samyangep.com/en/>

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**Distributor****Advanced Plastics, Inc****Telephone:** 847-550-5556**Web:** <http://www.apikolon.com/>**Availability:** Mexico, North America, South America**Entec Polymers****Telephone:** 833-319-0299**Web:** [https://www.entecpolymers.com/?utm\\_source=ul&utm\\_medium=paid%20association&utm\\_campaign=entec%20%7C%20entec%201&utm\\_term=ul%20%7C%20where%20to%20buy](https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy)**Availability:** North America**GAZECHIM PLASTICS FRANCE & ITALY****Telephone:** +33-4-67-49-55-37**Web:** <http://www.gazechim.com/>**Availability:** France**PolySource***PolySource is a North American resin and plastics distributor. Please feel to reach out to your Technical Sales Account Manager. <https://polysource.net/our-team/>***Telephone:** 816-540-5300**Web:** <http://www.polysource.net/>**Availability:** Canada, Mexico, United States**SNETOR***SNETOR is a Pan European distribution company. Contact SNETOR for availability of individual products by country.***Telephone:** +33-1-4904-8888**Web:** <http://www.snetor.com/>**Availability:** Belgium, Denmark, Finland, Italy, Netherlands, Norway, Poland, Romania, Spain, Sweden, United Kingdom**Ultrapolymers***Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.***Telephone:** +32-11-57-95-57**Web:** <http://www.ultrapolymers.com/>**Availability:** Belarus, Russian Federation, Turkey, Ukraine