

## Samyang Triloy® 210N PC/ABS alloy, Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Characteristics: Impact resistant Heat resistant Flame retardant Applications: Cellular phone Monitor housing Coffee maker Hair dryer O/A part All information provided by Samyang

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Triloy-210N-PCABS-alloy-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Samyang-Triloy-210N-PCABS-alloy-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 °C	@Load 11.0 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	58.8 MPa	8530 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Flexural Yield Strength	81.4 MPa	11800 psi	ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	ASTM D790
Izod Impact, Unnotched	6.86 J/cm	12.9 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	83.0 µm/m-°C	46.1 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+16 ohm-cm	5.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.0	3.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Dissipation Factor	0.0090	0.0090	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 °C	446 - 482 °F	
Middle Barrel Temperature	220 - 240 °C	428 - 464 °F	
Front Barrel Temperature	210 - 230 °C	410 - 446 °F	
Nozzle Temperature	240 - 250 °C	464 - 482 °F	
Melt Temperature	240 - 250 °C	464 - 482 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	3 - 5 hour	3 - 5 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China