

## Tisan TISARBON® Flame Retardant (V0) Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

### Material Notes:

TISARBON has a wide area of application in construction, building auxiliary materials, electric/electronic, lighting equipment, home appliances, automotive, telecommunication and health products industries. General Specifications include: High temperature resistance Dimensional stability Impact resistance Excellent surface quality High light transparence Flame resistance Low moisture ratio Toughness TISARBON has good chemical resistance against weak acids. It has medium resistance against alcohols, hydrocarbons, and engine fuels, and weak resistance against acids, alkalis, and organic solvents.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Tisan-TISARBON-Flame-Retardant-V0-Polycarbonate.php](http://www.lookpolymers.com/polymer_Tisan-TISARBON-Flame-Retardant-V0-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527-2
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-2
Elongation at Break	6.5 %	6.5 %	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Modulus of Elasticity	2.30 GPa	334 ksi	ISO 527-2
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	230 °C	446 °F	
Vicat Softening Point	141 °C	286 °F	ISO 306
Heat Distortion Temperature	135 °C	275 °F	ISO 75-2
Flammability, UL94	V-0	V-0	
Glow Wire Test	960 °C	1760 °F	60695-2-10

Processing Properties	Metric	English	Comments
Feed Temperature	70.0 °C	158 °F	
Rear Barrel Temperature	280 - 290 °C	536 - 554 °F	Aft-1. Region Temperature

Processing Properties	Metric	English	Comments
Front Barrel Temperature	260 - 270 °C	500 - 518 °F	Pre-3. Region Temperature
Nozzle Temperature	280 - 290 °C	536 - 554 °F	
Melt Temperature	270 - 290 °C	518 - 554 °F	
Drying Temperature	90.0 - 120 °C	194 - 248 °F	Predrying Temperature
Dry Time	3 - 5 hour	3 - 5 hour	Predrying Time
Moisture Content	0.20 %	0.20 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	80°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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