

Tisan TISARBON® UNR Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

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 resistanceDimensional stabilityImpact resistanceExcellent surface qualityHigh light transparenceFlame resistanceLow moisture ratioToughness 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-UNR-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	
Melt Flow	22 g/10 min	22 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	91	91	ISO 868
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527-2
Tensile Strength, Yield	65.0 MPa	9430 psi	ISO 527-2
Elongation at Break	12 %	12 %	ISO 527-2
Elongation at Yield	9.0 %	9.0 %	ISO 527-2
Modulus of Elasticity	2.00 GPa	290 ksi	ISO 527-2
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	230 °C	446 °F	
Vicat Softening Point	150 °C	302 °F	ISO 306
Heat Distortion Temperature	145 °C	293 °F	ISO 75-2
Flammability, UL94	V-2	V-2	
Glow Wire Test	750 °C	1380 °F	60695-2-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	TS EN 60112

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
Middle Barrel Temperature	270 - 280 °C	518 - 536 °F	Mid-2. Region Temperature
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	

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