

Tisan TISAKRIL® Flame Retardant (V0) ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

TISAKRIL has a wide area of application in automotive, electronics, computer, construction, and furniture industries. General Specifications include: High surface luminosityEasy processabilityDimensional stabilityInsulationLow weightHigh toughnessLow moisture absorptionHigh chemical resistance Glass fiber reinforced TISAKRIL increases mechanical resistance, surface hardness, melting point and specific gravity, while simultaneously reducing mold shrinkage. Calcite, talc, glass ball and other fillers may be used for reinforcement of TISAKRIL apart from glass fiber. It has excellent chemical resistance to weak acids, weak alkalis, and strong alkalis. It has good resistance against strong acids. It has weak chemical resistance against organic solvents, alcohols, hydrocarbons, and engine fuels.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tisan-TISAKRIL-Flame-Retardant-V0-ABS.php

Physical Properties	Metric	English	Comments
Density	1.235 g/cc	0.04462 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	ISO 527-2
Tensile Strength, Yield	45.0 MPa	6530 psi	ISO 527-2
Elongation at Break	3.6 %	3.6 %	ISO 527-2
Elongation at Yield	3.8 %	3.8 %	ISO 527-2
Modulus of Elasticity	2.50 GPa	363 ksi	ISO 527-2
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	
Vicat Softening Point	110 °C	230 °F	ISO 306
Heat Distortion Temperature	105 °C	221 °F	ISO 75-2
Flammability, UL94	V-0	V-0	
Glow Wire Test	960 °C	1760 °F	60695-2-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	TS EN 60112

Processing Properties	Metric	English	Comments
Feed Temperature	60.0 °C	140 °F	
Rear Barrel Temperature	190 - 210 °C	374 - 410 °F	Aft-1. Region Temperature
Middle Barrel Temperature	190 - 210 °C	374 - 410 °F	Mid-2. Region Temperature
Front Barrel Temperature	190 - 210 °C	374 - 410 °F	Pre-3. Region Temperature
Nozzle Temperature	200 °C	392 °F	
Melt Temperature	160 - 180 °C	320 - 356 °F	
Drying Temperature	80.0 °C	176 °F	Predrying Temperature
Dry Time	2 - 3 hour	2 - 3 hour	Predrying Time
Moisture Content	0.30 %	0.30 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	45°C	

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