Tisan TISOPLEN® 25% Glass Fiber Reinforced Flame Retardant (V0). Heat Stabilized Copolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

TISOPLEN has a wide area of application in furniture, durable goods, household appliances, electrics/electronics, and telecommunication industries. General specifications include Low densityLow moisture intakeHigh impact resistanceExcellent chemical resistanceElectrical isolationHigh performance/affordable priceEasy processability Mineral filled TISOPLEN compounds have a long lasting thermal-dimensional stability, increased mechanical and hardness characteristics, decreased mold shrinkage and improved surface appearance. Glass fiber reinforcement will impart high tensile strength and impact resistance and yield improvements in thermal characteristics of TISOPLEN products. Excellent resistance to weak acids, weak alkalis, and strong alkalis. Good resistance to strong acids and alcohols. Medium resistance to hydrocarbons and engine fuels. Weak resistance to organic solvents.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Tisan-TISOPLEN-25-Glass-Fiber-Reinforced-Flame-Retardant-V0-Heat-Stabilized-Copolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	
Ash	25 %	25 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	69	69	ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	ISO 527-2
Tensile Strength, Yield	43.0 MPa	6240 psi	ISO 527-2
Elongation at Break	3.5 %	3.5 %	ISO 527-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-2
Modulus of Elasticity	5.00 GPa	725 ksi	ISO 527-2
Izod Impact, Notched (ISO)	6.00 kJ/m²	2.86 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	
Vicat Softening Point	130 °C	266 °F	ISO 306
Heat Distortion Temperature	155 °C	311 °F	ISO 75-2
Flammability, UL94	V-0	V-0	

Thermal Properties	Metric	English	Comments
Electrical Properties	**Metric**	**English**	**Comments**
Comparative Tracking Index	600 V	600 V	TS EN 60112

Processing Properties	Metric	English	Comments
Feed Temperature	70.0 °C	158 °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	170 - 190 °C	338 - 374 °F	
Drying Temperature	80.0 °C	176 °F	Predrying Temperature
Dry Time	1 hour	1 hour	Predrying Time
Moisture Content	0.010 %	0.010 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	45°C	

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