Tisan TISOPLEN® 15% Mineral Filled 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-15-Mineral-Filled-Flame-Retardant-V0-Heat-Stabilized-Copolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Ash	15 %	15 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	67	67	ISO 868
Tensile Strength at Break	26.0 MPa	3770 psi	ISO 527-2
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527-2
Elongation at Break	25 %	25 %	ISO 527-2
Elongation at Yield	15 %	15 %	ISO 527-2
Modulus of Elasticity	2.40 GPa	348 ksi	ISO 527-2
Izod Impact, Notched (ISO)	17.0 kJ/m²	8.09 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	
Vicat Softening Point	150 °C	302 °F	ISO 306
Heat Distortion Temperature	130 °C	266 °F	ISO 75-2
Flammability, UL94	V-0	V-0	

Thermal Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	350 V	350 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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