LATI LAPEX A Polyethersulfone (PES) (UL94 V-0) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Description: Lapex A compounds are polyethersulfone (PES) products. They are high temperature compounds offering an interesting combination of properties. Lapex A provides outstanding thermal resistance (no load working temperature can reach 170°C, 200°C for short period) high heat deflection temperature, thermal stability for extended use, excellent toughness and exceptional creep resistance. This series also features superior resistance to hydrolysis therefore it is suitable for application with steam and boiling water. Finally, the Lapex A series products are flame retardant without adding additives.Specific Notes for this Material: PES, unfilled, flame retardant UL94 V0, halogens and red phosphorous free Disclaimer from LATI: This document contains information based on average values as obtained from the results of laboratory tests and observations made on LATI materials. Tested materials were injection molded, used in their natural color, and conditioned in compliance with Standard ASTM D 618, procedure A. These values refer to LATI's best technical and scientific knowledge at the moment of testing and cannot be used as a basis for the development of applications. For a better assessment of the materials, you are kindly requested to contact LATI's technical or commercial offices, which are at your disposal and will supply detailed information on the most suitable characteristics for their intended use. With reference to DPR n.224 dated May 24, 1988, issued in accordance with EC Guide-lines 85/374, LATI Industria Termoplastici S.p.A. declines all responsibility arising from an improper use of the products described in this document.All data provided by LATI.

Order this product through the following link:
http://www.lookpolymers.com/polymer_LATI-LAPEX-A-Polyethersulfone-PES-UL94-V-0-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	80.0 MPa	11600 psi	ISO 527
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm @Temperature 23.0 °C	1.59 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
Oxygen Index	39 %	39 %	ISO 4589

Thermal Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 kV/mm @Thickness 2.00 mm	381 kV/in @Thickness 0.0787 in	IEC 243-1
Comparative Tracking Index	150 V	150 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	320 - 350 °C	608 - 662 °F	
Mold Temperature	130 - 150 °C	266 - 302 °F	
Drying Temperature	150 - 180 °C	302 - 356 °F	Not necessary for reinforced materials. Temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Not necessary for reinforced materials. Drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Injection Speed	high	

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