

LATI Lapex A PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Polyether Sulfone (PES). Unfilled. Low smoke density and low toxicity index. Very high dimensional stability. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LATI-Lapex-A-PES.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	
Linear Mold Shrinkage, Flow	0.0075 - 0.0095 cm/cm	0.0075 - 0.0095 in/in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.0095 cm/cm	0.0080 - 0.0095 in/in	

Mechanical Properties	Metric	English	Comments
Elongation at Break	>= 100 %	>= 100 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	>= 100 %	>= 100 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	>= 100 %	>= 100 %	
Elongation at Yield	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	>= 100 %	>= 100 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	>= 100 %	>= 100 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Elongation at Yield	3.2 %	3.2 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	4.0 %	4.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	4.7 %	4.7 %	
Elongation at Yield	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	5.5 %	5.5 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	6.3 %	6.3 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Tensile Modulus	2.60 GPa	377 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	2.70 GPa	392 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.75 GPa	399 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.80 GPa	406 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.95 GPa	428 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	NB	NB	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	NB	NB	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
Charpy Impact, Notched	0.250 J/cmÂ²	1.19 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	0.650 J/cmÂ²	3.09 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 Â°C	356 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	195 Â°C	383 Â°F	

Thermal Properties Vicat Softening Point	215 Â°C Metric	419 Â°F English	Comments
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	39 %	39 %	

Processing Properties	Metric	English	Comments
Melt Temperature	340 - 370 Â°C	644 - 698 Â°F	
Mold Temperature	140 - 165 Â°C	284 - 329 Â°F	
Drying Temperature	140 - 180 Â°C	284 - 356 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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