

LAPEX R

PPSU, unfilled, flame retardant UL94 V0, halogens and red phosphorous free

Processing conditions

Drying temperature (min - max):	150 - 180 °C	Not necessary for reinforced materials. Temperature and drying time are reduced when using vacuum ovens.
Drying period (minimum):	3 h	
Melt temperature (min - max):	350 - 380 °C	
Mould temperature (min - max):	140 - 165 °C	
Injection speed:	high	

Rheological properties

Moulding shrinkage, parallel (longitudinal):	0,65 %	LATI
Moulding shrinkage, normal (transverse):	0,65 %	LATI

Mechanical properties

Flexural modulus +23 °C:	2500 MPa	ASTM D 790
Tensile strength +23 °C:	72 MPa	ISO 527
Rockwell hardness M:	-	ASTM D 785
Izod - Impact strength (notched) +23 °C:	650 J/m	ASTM D 256
Charpy - Impact strength (unnotched) +23 °C:	- kJ/m ²	DIN 53453

Thermal properties

Temp. of defl. under load (1.80 MPa):	205 °C	ASTM D648
Temp. of defl. under load (0.45 MPa):	- °C	ASTM D648
Vicat softening temperature (50 °C/h 50N):	- °C	ISO 306
Heat resistance - Ball test (125 °C):	-	IEC 335

Heat resistance - Ball test (165°C):	-	IEC 335
Coef. of lin. therm expansion, normal:	- E-5/°C	ASTM D 696
Glow wire test - thickn. 2mm:	- °C	IEC 695-2-1
Glow wire test - thickn. 1mm:	- °C	IEC 695-2-1

Flame retardancy

Flammability at 0.8 mm nom. thick.:	V0 class	UL94
Flammability (Thickness tested):	0,75 mm	
Flammability by Oxygen index:	38 %	ISO 4589
Needle burner test (1,47 mm):	-	
Needle burner test (3,05 mm):	-	

Electrical properties

Comparative tracking index:	- Volts	IEC 112
Electric strength (2mm):	15,0 kV/mm	IEC 243-1

Other properties

Density:	1,30 g/ccm	ISO 1183
Water absorption in water at 23°C:	- %	ISO 62

Note

For further details on handling & processing techniques, inquire on special technical notes and Health & Safety Data Sheets

Please contact the TECHNICAL ASSISTANCE SERVICE for any special project

This document contains information based on average values as obtained from the results of laboratory tests and observations made on our 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 our 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 our 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.

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