

Lapex R

Polyphenylsulfone
LATI S.p.A.

Message:

Polyphenylensulphone (PPSU).
UL94 V-0 classified, halogens free.
Low smoke density and low toxicity index. Very high dimensional stability.

General Information			
Features	Good Dimensional Stability		
	Halogen Free		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.85 to 1.0	%	
Flow : 2.00 mm	0.80 to 1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	2800	MPa	
60°C	2700	MPa	
90°C	2600	MPa	
120°C	2500	MPa	
150°C	2400	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	80.0	MPa	
Yield, 60°C	70.0	MPa	
Yield, 90°C	60.0	MPa	
Yield, 120°C	50.0	MPa	
Yield, 150°C	40.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	5.0	%	
Yield, 60°C	4.6	%	
Yield, 90°C	3.8	%	
Yield, 120°C	3.3	%	
Yield, 150°C	2.8	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	60	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	600	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Continuous Use Temperature ²	190	°C	
Vicat Softening Temperature	215	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	38	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	140 to 180	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	340 to 380	°C	
Mold Temperature	140 to 180	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

