

## LATI Laramid K/40 HM PPA, 40% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber Filled

**Material Notes:**

Semi-aromatic polyamide (PPA) based compound. Carbon fiber. High tensile modulus. Very good thermal properties. Good chemical resistance. Low moisture absorption. 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-Laramid-K40-HM-PPA-40-Carbon-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_LATI-Laramid-K40-HM-PPA-40-Carbon-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	
Linear Mold Shrinkage, Flow	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0055 cm/cm	0.0030 - 0.0055 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	190 MPa	27600 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	245 MPa	35500 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	265 MPa	38400 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	290 MPa	42100 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	0.80 %	0.80 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.0 %	1.0 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.3 %	1.3 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.0 %	2.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	3.5 %	3.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	12.0 GPa	1740 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	20.0 GPa	2900 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	27.0 GPa	3920 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	32.0 GPa	4640 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	36.0 GPa	5220 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	6.00 J/cmÂ²	28.6 ft-lb/inÂ²	
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	290 Â°C	554 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	280 Â°C	536 Â°F	
Vicat Softening Point	275 Â°C	527 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm	100 ohm-cm	
Surface Resistance	10 ohm	10 ohm	

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 340 Â°C	590 - 644 Â°F	
Mold Temperature	150 - 170 Â°C	302 - 338 Â°F	
Drying Temperature	120 - 130 Â°C @Time 10800 sec	248 - 266 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China