

LATI Latamid 12 H2 K/30 PA 12, 30% Carbon Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

Polyamide 12 (PA12) based compound. Heat stabilized. Carbon fiber. 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-Latamid-12-H2-K30-PA-12-30-Carbon-Fiber-Reinforced-Heat-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|----------|
| Density | 1.17 g/cc | 0.0423 lb/in ³ | |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0040 cm/cm | 0.0020 - 0.0040 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0060 - 0.0090 cm/cm | 0.0060 - 0.0090 in/in | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------|-----------------------|----------|
| Tensile Strength at Break | 35.0 MPa | 5080 psi | |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| | 50.0 MPa | 7250 psi | |
| | @Temperature 120 Â°C | @Temperature 248 Â°F | |
| | 70.0 MPa | 10200 psi | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |
| | 95.0 MPa | 13800 psi | |
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | 140 MPa | 20300 psi | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Elongation at Break | 3.0 % | 3.0 % | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| | 4.5 % | 4.5 % | |
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | 5.0 % | 5.0 % | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|------------------------|----------|
| | @Temperature 120 Â°C | @Temperature 248 Â°F | |
| | 7.0 % | 7.0 % | |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| Tensile Modulus | 2.60 GPa | 377 ksi | |
| | @Temperature 150 Â°C | @Temperature 302 Â°F | |
| | 3.90 GPa | 566 ksi | |
| | @Temperature 120 Â°C | @Temperature 248 Â°F | |
| | 6.60 GPa | 957 ksi | |
| | @Temperature 90.0 Â°C | @Temperature 194 Â°F | |
| | 7.20 GPa | 1040 ksi | |
| | @Temperature 60.0 Â°C | @Temperature 140 Â°F | |
| | 15.8 GPa | 2290 ksi | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Charpy Impact Unnotched | 4.00 J/cmÂ² | 19.0 ft-lb/inÂ² | |
| | @Temperature -20.0 Â°C | @Temperature -4.00 Â°F | |
| | 4.50 J/cmÂ² | 21.4 ft-lb/inÂ² | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Charpy Impact, Notched | 0.800 J/cmÂ² | 3.81 ft-lb/inÂ² | |
| | @Temperature -20.0 Â°C | @Temperature -4.00 Â°F | |
| | 1.00 J/cmÂ² | 4.76 ft-lb/inÂ² | |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |

| Thermal Properties | Metric | English | Comments |
|---------------------------------------------|---------|---------|----------|
| Maximum Service Temperature, Air | 120 Â°C | 248 Â°F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 180 Â°C | 356 Â°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 175 Â°C | 347 Â°F | |

| Thermal Properties | 170 Â°C Metric | 338 Â°F English | Comments |
|--------------------|---------------------|----------------------|----------|
| | @Load 5.00 kg | @Load 11.0 lb | |
| Flammability, UL94 | V-2 | V-2 | |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| | V-2 | V-2 | |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| | V-2 | V-2 | |
| | @Thickness 0.750 mm | @Thickness 0.0295 in | |
| Oxygen Index | 21 % | 21 % | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------|
| Melt Temperature | 210 - 230 Â°C | 410 - 446 Â°F | |
| Mold Temperature | 70.0 - 90.0 Â°C | 158 - 194 Â°F | |
| Drying Temperature | 70.0 - 90.0 Â°C | 158 - 194 Â°F | |
| | @Time 10800 sec | @Time 3.00 hour | |

| Descriptive Properties | Value | Comments |
|--------------------------|--------|----------|
| ISO Shrinkage - Pressure | 60 MPa | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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