

Toyobo GLAMIDE® T-422-02 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Mineral Filled

Material Notes:

GLAMIDE® is very tough and exhibits high abrasion resistance. It has a high melting point and heat resistance, has well-balanced proportions of mechanical properties, performs self-distinguishing and a specific grade approved as UL94V-0 class is provided, and it exhibits excellent chemical resistance and oil resistance. Grade T-422-02 is a mineral-reinforced Nylon-6 with high heat resistance and high rigidity.35

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-422-02-Nylon-6.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------------------|-----------------------|----------------------------|
| Specific Gravity | 1.42 g/cc | 1.42 g/cc | Absolute Drying; ASTM-D792 |
| Filler Content | 35 % | 35 % | |
| Water Absorption | 0.70 % | 0.70 % | Absolute Drying; ASTM-D570 |
| Moisture Absorption at Equilibrium | 2.3 % | 2.3 % | Absolute Drying; ASTM-D570 |
| Linear Mold Shrinkage | 0.0010 - 0.0020 cm/cm | 0.0010 - 0.0020 in/in | Absolute Drying |
| | @Thickness 1.00 mm | @Thickness 0.0394 in | |
| | 0.0030 - 0.0060 cm/cm | 0.0030 - 0.0060 in/in | Absolute Drying |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |
| Melt Flow | 3.0 g/10 min | 3.0 g/10 min | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------|----------------------|--|
| Hardness, Rockwell R | 120 | 120 | Absolute Drying; ASTM-D785 |
| Tensile Strength, Ultimate | 40.0 MPa | 5800 psi | Practical Use (Water Absorption 2.3%); ASTM-D638 |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 50.0 MPa | 7250 psi | Absolute Drying; ASTM-D638 |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 65.0 MPa | 9430 psi | Practical Use (Water Absorption 2.3%); ASTM-D638 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 95.0 MPa | 13800 psi | Absolute Drying; ASTM-D638 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 115 MPa | 16700 psi | Practical Use (Water Absorption 2.3%); ASTM-D638 |

| Mechanical Properties | @Temperature -40.0 °C Metric | @Temperature -40.0 °F English | Comments |
|-----------------------|---------------------------------|----------------------------------|--|
| | 120 MPa | 17400 psi | Absolute Drying; ASTM-D638 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Elongation at Break | 3.2 % | 3.2 % | Absolute Drying; ASTM-D638 |
| | 5.0 % | 5.0 % | Practical Use (Water Absorption 2.3%); ASTM-D638 |
| Flexural Strength | 55.0 MPa | 7980 psi | Practical Use (Water Absorption 2.3%); ASTM-D790 |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 80.0 MPa | 11600 psi | Absolute Drying; ASTM-D790 |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 96.0 MPa | 13900 psi | Practical Use (Water Absorption 2.3%); ASTM-D790 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 145 MPa | 21000 psi | Absolute Drying; ASTM-D790 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 165 MPa | 23900 psi | Practical Use (Water Absorption 2.3%); ASTM-D790 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 175 MPa | 25400 psi | Absolute Drying; ASTM-D790 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Flexural Modulus | 1.70 GPa | 247 ksi | Practical Use (Water Absorption 2.3%); ASTM-D790 |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 4.00 GPa | 580 ksi | Absolute Drying; ASTM-D790 |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | 5.00 GPa | 725 ksi | Practical Use (Water Absorption 2.3%); ASTM-D790 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 7.30 GPa | 1060 ksi | Absolute Drying; ASTM-D790 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 7.50 GPa | 1090 ksi | Practical Use (Water Absorption 2.3%); ASTM-D790 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 8.60 GPa | 1250 ksi | Absolute Drying; ASTM-D790 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Compressive Strength | 69.0 MPa | 10000 psi | Practical Use (Water Absorption 2.3%); ASTM-D695 |

| Mechanical Properties | 100 MPa Metric | 14500 psi English | Comments Absolute Drying; ASTM-D695 |
|--------------------------------|-----------------------|-----------------------|--|
| Izod Impact, Notched | 0.580 J/cm | 1.09 ft-lb/in | Absolute Drying; ASTM-D256 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 0.700 J/cm | 1.31 ft-lb/in | Practical Use (Water Absorption 2.3%); ASTM-D256 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 0.950 J/cm | 1.78 ft-lb/in | Absolute Drying; ASTM-D256 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 2.70 J/cm | 5.06 ft-lb/in | Practical Use (Water Absorption 2.3%); ASTM-D256 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Taber Abrasion, mg/1000 Cycles | 30 | 30 | CS-17, Absolute Drying; ASTM-D1044 |

| Thermal Properties | Metric | English | Comments |
|---|--------------|----------------|----------------------------|
| CTE, linear | 45.0 µm/m-°C | 25.0 µin/in-°F | Absolute Drying; ASTM-D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 210 °C | 410 °F | Absolute Drying; ASTM-D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 175 °C | 347 °F | Absolute Drying; ASTM-D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|----------------------|--|
| Volume Resistivity | 1.00e+9 ohm-cm | 1.00e+9 ohm-cm | Practical Use (Water Absorption 2.3%); ASTM-D257 |
| | 1.00e+12 ohm-cm | 1.00e+12 ohm-cm | |
| Dielectric Strength | 20.0 kV/mm | 508 kV/in | Practical Use (Water Absorption 2.3%); ASTM-D149 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |
| | 29.0 kV/mm | 737 kV/in | Absolute Drying; ASTM-D149 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |
| Arc Resistance | 120 sec | 120 sec | Practical Use (Water Absorption 2.3%); ASTM-D495 |
| | 130 sec | 130 sec | |
| Comparative Tracking Index | >= 600 V | >= 600 V | IEC Method |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Melt Temperature | | | |

| Processing Properties | 260 - 290 °C Metric | 500 - 554 °F English | Comments |
|-----------------------|------------------------|-------------------------|----------|
| Mold Temperature | 60.0 - 100 °C | 140 - 212 °F | |
| Injection Pressure | 40.0 - 80.0 MPa | 5800 - 11600 psi | |

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