

LATI Later 4E61 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Polybutylene Terephthalate (PBT). Toughened. Good impact resistance even at low temperature. 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-Later-4E61-PBT.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|----------------------|---------------------------|----------|
| Density | 1.26 g/cc | 0.0455 lb/in ³ | |
| Linear Mold Shrinkage, Flow | 0.018 - 0.021 cm/cm | 0.018 - 0.021 in/in | |
| Linear Mold Shrinkage, Transverse | 0.018 - 0.0205 cm/cm | 0.018 - 0.0205 in/in | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------------------|----------------------|----------|
| Elongation at Break | >= 100 % | >= 100 % | |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | >= 100 % | >= 100 % | |
| | @Temperature 60.0 °C | @Temperature 140 °F | |
| Elongation at Yield | >= 100 % | >= 100 % | |
| | @Temperature 90.0 °C | @Temperature 194 °F | |
| Tensile Modulus | >= 100 % | >= 100 % | |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 7.0 % | 7.0 % | |
| | 0.180 GPa | 26.1 ksi | |
| Charpy Impact Unnotched | @Temperature 90.0 °C | @Temperature 194 °F | |
| | 0.300 GPa | 43.5 ksi | |
| Charpy Impact Unnotched | @Temperature 60.0 °C | @Temperature 140 °F | |
| | 0.600 GPa | 87.0 ksi | |
| Charpy Impact Unnotched | 1.90 GPa | 276 ksi | |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | NB | NB | |

| Mechanical Properties | @Temperature 23.0 °C Metric | @Temperature 73.4 °F English | Comments |
|------------------------|--------------------------------|---------------------------------|----------|
| | NB | NB | |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| Charpy Impact, Notched | 1.00 J/cm ² | 4.76 ft-lb/in ² | |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| | 1.50 J/cm ² | 7.14 ft-lb/in ² | |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|---------------|---------------|----------|
| Maximum Service Temperature, Air | 115 °C | 239 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 115 °C | 239 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 50.0 °C | 122 °F | |
| Vicat Softening Point | 140 °C | 284 °F | |
| | @Load 5.00 kg | @Load 11.0 lb | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|----------|
| Melt Temperature | 230 - 245 °C | 446 - 473 °F | |
| Mold Temperature | 70.0 - 90.0 °C | 158 - 194 °F | |
| Drying Temperature | 110 - 130 °C | 230 - 266 °F | |
| | @Time 10800 sec | @Time 3.00 hour | |

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

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