

## Polykemi AB POLYshine PBT D201 PBT

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

### Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polykemi-AB-POLYshine-PBT-D201-PBT.php](http://www.lookpolymers.com/polymer_Polykemi-AB-POLYshine-PBT-D201-PBT.php)

| Physical Properties   | Metric              | English                   | Comments              |
|-----------------------|---------------------|---------------------------|-----------------------|
| Density               | 1.31 g/cc           | 0.0473 lb/in <sup>3</sup> | ISO 1183              |
| Linear Mold Shrinkage | 0.018 - 0.020 cm/cm | 0.018 - 0.020 in/in       | With Flow; ISO 2577   |
|                       | 0.018 - 0.020 cm/cm | 0.018 - 0.020 in/in       | Across Flow; ISO 2577 |

| Mechanical Properties     | Metric                  | English                    | Comments |
|---------------------------|-------------------------|----------------------------|----------|
| Tensile Strength at Break | <= 55.0 MPa             | <= 7980 psi                | ISO/R527 |
| Flexural Strength         | <= 85.0 MPa             | <= 12300 psi               | ISO 178  |
| Flexural Modulus          | 2.30 GPa                | 334 ksi                    | ISO 178  |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |          |
| Charpy Impact, Notched    | 0.300 J/cm <sup>2</sup> | 1.43 ft-lb/in <sup>2</sup> | ISO 179  |
|                           | @Temperature 23.0 °C    | @Temperature 73.4 °F       |          |
|                           | 0.300 J/cm <sup>2</sup> | 1.43 ft-lb/in <sup>2</sup> | ISO 179  |
|                           | @Temperature -20.0 °C   | @Temperature -4.00 °F      |          |

| Thermal Properties                          | Metric             | English              | Comments          |
|---|--------------------|----------------------|-------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 165 °C             | 329 °F               | 120°C/h; ISO 75/1 |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.0 °C            | 149 °F               | 120°C/h; ISO 75/1 |
| Vicat Softening Point                       | 178 °C             | 352 °F               | 50°C/h; ISO 306   |
|   | @Load 5.001 kg     | @Load 11.03 lb       |                   |
| Flammability, UL94                          | HB                 | HB                   |                   |
|   | @Thickness 1.60 mm | @Thickness 0.0630 in |                   |
| Glow Wire Test                              | 750 °C             | 1380 °F              | IEC 695-2-1       |
|   | @Thickness 2.00 mm | @Thickness 0.0787 in |                   |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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