

**2000 B Series Magnetically Attractive TPU
Thermoplastic Elastomer Alloy
Heat Stabilized
Metal Detectable
Preliminary Datasheet**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE | English | SI Metric | ASTM TEST |
|--|----------------|------------------|------------------|
| Specific Gravity | 1.61 | 1.61 | D 792 |
| MECHANICAL | | | |
| Tensile Strength | | | |
| Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min) | 4400 psi | 30MPa | 0412 |
| Tensile Elongation | | | |
| Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min) | 400.0 % | 400.0 % | D 412 |
| Tensile Stress | | | |
| Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min) | | | |
| @100% | 1100.0 psi | 7.6 MPa | D 412 |
| Tear Strength, Die C | 350.0 pli | 61.3 N/mm | D 624 |
| Hardness | | | |
| Shore A, 10 s delay | 87 | 87 | D 2240 |

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.
Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

GENERAL PROCESSING FOR EXTRUSION PROCESSING

| | English | SI Metric |
|------------------|--------------------------|------------------------|
| Melt Temperature | 380 - 420 °F | 193-216°C |
| Die Temperature | 360 - 420 °F | 182-216°C |
| Drying | 2 - 4 hrs @ 180 - 220 °F | 2 - 4 hrs@ 82 - 104 °c |
| Moisture Content | < 0.10 % | < 0.10 % |

PROCESSING NOTES

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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