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## Material Data Sheet

**Material:** *Eporex® HIPS 827*  
**Generic:** *High Impact Polystyrene*  
**Manufacturer:** *Eternal Plastics Co., LTD*

| <b>Property</b>             | <b>Data</b> | <b>Units</b>          | <b>ASTM</b> |
|-----------------------------|-------------|-----------------------|-------------|
| <b>GENERAL</b>              |             |                       |             |
| Ratings                     |             |                       |             |
| Features                    |             |                       |             |
| Form                        | Pellets     |                       |             |
| Processing Method           | Injection   |                       |             |
| Uses                        |             |                       |             |
| <b>PHYSICAL</b>             |             |                       |             |
| Melt Flow Rate              | 8           | g/10 min              | D-256       |
| Specific Gravity            | 1.05        |                       | D-792       |
| Mold Shrinkage              |             | %                     | D-955       |
| <b>MECHANICAL</b>           |             |                       |             |
| Flexural Modulus            | 2.9         | psi x 10 <sup>5</sup> | D-790       |
| Flexural Strength @ Yield   | 5.7         | psi x 10 <sup>3</sup> | D-790       |
| Tensile Modulus             |             | psi x 10 <sup>5</sup> | D-790       |
| Tensile Elongation          | 60          | %                     | D-638       |
| Tensile Strength @ Yield    | 3.3         | psi x 10 <sup>3</sup> | D-638       |
| <b>IMPACT</b>               |             |                       |             |
| Notched Izod Impact 1/8 in. | 2.02        | ft-lb/in              | D-256       |
| <b>HARDNESS</b>             |             |                       |             |
| Rockwell Hardness           | 64          | M-Scale               | D-785       |
| <b>THERMAL</b>              |             |                       |             |
| HDT @264 psi-unannealed     | 176         | °F                    | D-648       |
| <b>FLAMMABILITY</b>         |             |                       |             |
| Flame Rating - UL           | HB          |                       |             |

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