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## Material Data Sheet

**Material:** *Eporex® HIPS 855FR*  
**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                     | UL V-0  |                    |             |
| Features                    | High Gloss<br>High Impact<br>Good Flow                                  |                    |             |
| Form                        | Pellets   |                    |             |
| Processing Method           | Injection   |                    |             |
| Uses                        | Flame Retardant Electrical Parts<br>TV Housings, Monitors, Motor Covers |                    |             |
| <b>PHYSICAL</b>             |   |                    |             |
| Melt Flow Rate (200°C/5kg)  | 10  | g/10 min           | D-1238      |
| Specific Gravity            | 1.15  |                    | D-792       |
| Mold Shrinkage              |   | %                  | D-955       |
| <b>MECHANICAL</b>           |   |                    |             |
| Flexural Modulus            | 25,200  | kg/cm <sup>2</sup> | D-791       |
| Flexural Strength @ Yield   | 360   | kg/cm <sup>2</sup> | D-790       |
| Tensile Elongation          | 50  | %                  | D-638       |
| Tensile Strength @ Yield    | 230   | kg/cm <sup>2</sup> | D-638       |
| <b>IMPACT</b>               |   |                    |             |
| Notched Izod Impact 1/8 in. | 1.62  | ft-lb/in           | D-256       |
| <b>HARDNESS</b>             |   |                    |             |
| Rockwell Hardness           | 65  | M-Scale            | D-785       |
| <b>THERMAL</b>              |   |                    |             |
| HDT @264 psi-unannealed     | 162   | °F                 | D-648       |
| <b>FLAMMABILITY</b>         |   |                    |             |
| Flame Rating - UL           | V-0   |                    |             |

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