

A growing manufacturer of polymer compounds

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| Product Test Certificate              |                    |                      |                         |              |
|---------------------------------------|--------------------|----------------------|-------------------------|--------------|
| Grade Name                            |                    | PPBPRAOE-02          |                         |              |
| Material Description                  |                    | ELV PP Parts Recycle |                         |              |
| Batch No.                             |                    | B0225G009            |                         |              |
| Property                              | Unit               | Test Method          | Certified Specification | PPPL Results |
| Physical Properties                   |                    |                      |                         |              |
| Density                               | gm/cc              | ASTM D792            | 0.93 ~ 1.04             | 0.98         |
| Melt Flow Rate<br>@ 230°C/ 2.16 kg    | gm/10 min.         | ASTM D1238           | 16 ~ 23                 | 19           |
| Mechanical Properties                 |                    |                      |                         |              |
| Tensile Strength @ Yield              | Kg/cm <sup>2</sup> | ASTM D638            | 170 ~ 198               | 184          |
| Elongation @ Yield                    | %                  | ASTM D638            | 6 ~ 8                   | 6.5          |
| Flexural strength                     | Kg/cm <sup>2</sup> | ASTM D790            | 240 ~ 424               | 321.2        |
| Flexural modulus                      | Mpa                | ASTM D790            | 870 ~ 2050              | 1552.6       |
| Izod Impact (Notched @ 23°C)          | Kg/cm <sup>2</sup> | ASTM D256            | 20 ~ 27                 | 22.2         |
| Thermal Properties                    |                    |                      |                         |              |
| Filler content<br>( @650°C )          | %                  | PPPL Method          | 10 ~ 16                 | 13.1         |
| Heat Deflection Temperature @ 455 Kpa | °C                 | ASTM D648            | 80 ~ 110                | 94           |
| Chemical Substances                   |                    |                      |                         |              |
| Cd                                    | PPM                | XRF Screening        | 1000                    | Nd           |
| Pb                                    |                    |                      | 100                     | 34           |
| Cr-VI                                 |                    |                      | 1000                    | Nd           |
| Hg                                    |                    |                      | 1000                    | Nd           |
| Br                                    |                    |                      | 1000                    | 14           |

*This is a computer- generated sheet which does not require any signature.*

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