

UHMWPE

YUHWA HIDEN U090

Features  
and Uses

Properties

Contact  
Info.

|                                                                                            |                                                                         |                      |                      |                   |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------|----------------------|-------------------|
| Application                                                                                | UHMWPE                                                                  |                      |                      |                   |
| Features                                                                                   | Good property, Processibility balance, Higher wear resistance than U070 |                      |                      |                   |
| Uses                                                                                       | Compression Molding, Ram Extrusion, Battery Separators                  |                      |                      |                   |
| Items                                                                                      |                                                                         | Specification        | Unit                 | Test Method       |
| Average Mv (10 <sup>6</sup> g/mol)                                                         |                                                                         | 9                    | —                    | KPIC Method       |
| Density                                                                                    |                                                                         | 0.93                 | g/cm <sup>3</sup>    | ASTM D1505        |
| Bulk Density                                                                               |                                                                         | 0.46                 | g/cm <sup>3</sup>    | ISO 60            |
| Avg. Particle Size                                                                         |                                                                         | 125                  | μm                   | KPIC Method       |
| Tensile Strength at Yield                                                                  |                                                                         | >170                 | kgf/cm <sup>2</sup>  | ASTM D638         |
| Elongation at Break                                                                        |                                                                         | >300                 | %                    | ASTM D638         |
| Hardness                                                                                   |                                                                         | 50                   | Shore D              | ASTM D2240        |
| Impact Strength (Izod with Notch)                                                          |                                                                         | No Break             | kgf·cm/cm            | ASTM D256         |
| Abrasion Resistance                                                                        |                                                                         | 80                   | U050=100             | ISO 15527         |
| Melting Point                                                                              |                                                                         | 135                  | ℃                    | ASTM D3418        |
| Heat Deflection Temperature                                                                |                                                                         | 79                   | ℃                    | ASTM D648         |
| ※ Above data are intended to serve as guides only, and are not sales specification limits. |                                                                         |                      |                      |                   |
| Division                                                                                   | Team in charge                                                          | TEL                  | FAX                  | e-mail            |
| International Trade                                                                        | KPICC                                                                   | 82-2-3706-0844, 0849 | 82-2-3706-0893, 0894 | trade@kpicc.com   |
| Technical Service                                                                          | Marketing Support Team                                                  | 82-2-2122-1537       | 82-2-2122-1519       | H15106@kpic.co.kr |