

UHMWPE  
**YUHWA HIDEN U090**

Features  
and Uses

Properties

<b>Application</b>	UHMWPE			
<b>Features</b>	Good property, Processibility balance, Higher wear resistance than U070			
<b>Uses</b>	Compression Molding, Ram Extrusion, Battery Separators			
	<b>Items</b>	<b>Specification</b>	<b>Unit</b>	<b>Test Method</b>
	<b>Average Mv (10<sup>6</sup> g/mol)</b>	9	-	KPIC Method
	<b>Density</b>	0.93	g/cm <sup>3</sup>	ASTM D1505
	<b>Bulk Density</b>	0.46	g/cm <sup>3</sup>	ISO 60
	<b>Avg. Particle Size</b>	125	μm	KPIC Method
	<b>Tensile Strength at Yield</b>	>170	kgf/cm <sup>2</sup>	ASTM D638
	<b>Elongation at Break</b>	>300	%	ASTM D638
	<b>Hardness</b>	50	Shore D	ASTM D2240
	<b>Impact Strength (Izod with Notch)</b>	No Break	kgf cm/cm	ASTM D256
	<b>Abrasion Resistance</b>	80	U050=100	ISO 15527
	<b>Melting Point</b>	135	°C	ASTM D3418
	<b>Heat Deflection Temperature</b>	79	°C	ASTM D648