



## Abson-AST UHMWPE Sheet

### Anti-static UHMWPE Sheet

Material Properties	Standard	Unit	Value
Average molecular weight		g /mol	Approx 5*10 <sup>6</sup>
Density	ISO1183	Kg/m <sup>3</sup>	≥930
Water absorption at 23℃until saturation	ISO62	%	<0.01
Material Properties	Standard	Unit	Value
Tensile stress at yeild (tensile strength)	ISO527	MPa	≥17
Enlongation at break	ISO527	%	≥300
Tensile modulus	ISO527	MPa	≥700
<b>Impact strength (Charpy)at 23℃</b>	ISO179	Kj/m <sup>2</sup>	No break
Notched impact strength (Charpy)at 23℃	<b>ISO11542-2</b>	Kj/m <sup>2</sup>	≥80
Ball indentation hardness	ISO2039-1	N/mm <sup>2</sup>	30-35
Shore-Hardness D,15 s value	ISO868		64
Coefficient of friction			Approx.0.2
Abrasion(Sand-Slurry)			100
Themal properties	Standard	Unit	Value
Melting point DSC ,10k/min	ISO3146	℃	135-138
Vicat softening point	ISO306	℃	80
Coefficient of linear themal expansion Between 23 and 80℃	ISO11359	K <sup>-1</sup>	approx 2*10 <sup>-4</sup>
Themal conductivity	ISO52612	W/[m*k]	approx 0.4
Use Temperature (max.)		℃	80
Use Temperature (briefly)		℃	90
Use Temperature (min.)		℃	-200
Electrical properties	Standard	Unit	Value
Relative permitivity at 100 Hz	IEC 60250	-	-
Dissipation factor at 100 Hz	IEC60250	-	-
Volume resistivity	IEC60093	Ohm*m	≅ 10 <sup>4</sup>
Surface resistivity	IEC60093	Ohm	≅ 10 <sup>9</sup>
Dielectric strength	IEC60243	KV/mm	-

### Notice to users:

The information contained in this technical date sheet can not be constructed as a promise or guarantee of specific properties of our products.Any determination of suitability of a particular material and part design for any use contemplated by the user is the sole responsibility of the user .The informaiton contained in this technical date sheet is based on present knowledge and may be subject to change without further notice.