



**High  
Performance  
Polymer™**

**ENGINEERED POLYMER SOLUTIONS**

**KYOUJIN (60% Glass Fibre Reinforced PA66)  
Data Sheet**

High Performance Polymer LTD

## KYOUJIN (60% Glass Fibre Reinforced PA66):

<b>Mechanical Properties</b>	<b>Unit</b>	<b>Method</b>	<b>Value</b>
Tensile Strength at Break	MPa	ISO 527	315
Tensile E-Modulus	MPa	ISO 527	23.5
Elongation at Break	%	ISO 527	2.2
Impact Strength	KJ/M <sup>2</sup>	ISO 179/1eU	125
Notched Impact Strength	KJ/M <sup>2</sup>	ISO 179/1eA	45
Ball Indentation Hardness	MPa	ISO 2039-1	360

<b>Torsional Rupture Torque (N*m)</b>	
Metric size (M)	<b>M12</b>
Standard Head Types	21.9

\*Numerical Values are calculated using mean average.

\*The recommended fastening torque for each screw type is 50% of the Torsional Rupture Torque value shown in the table.

<b>Tensile Rupture Force (N)</b>	
Metric size (M)	<b>M12</b>
Standard Head Types	17492

<b>Thermal Properties</b>	<b>Unit</b>	<b>Method</b>	<b>Value</b>
Deflection under load Temperature (1.80MPa)	°C	ISO 75	255
Continuous use Temperature	°C	ISO 2578	100.0-120
Maximum use Temperature	°C	ISO 2578	220

<b>Electrical Properties</b>	<b>Unit</b>	<b>Method</b>	<b>Value</b>
Volume Resistance	Ω*cm	IEC 60093	10 × 10 <sup>10</sup>
Comparative tracking index	-	IEC 60112	600
Dielectric strength	kV/mm	IEC 60243-1	33

<b>Physical Properties</b>	<b>Unit</b>	<b>Method</b>	<b>Value</b>
Density	-	ISO 1183	1.69
Water Absorption Rate (23 °C x 24Hr)	%	ISO 62	3.5
Flammability (UL94)	-	ISO 1210	HB