







## PA612 Series: Valladyn™ HG230SC

Valladyn™ HG230SC is a low/medium viscosity PA612 material. This resin is specifically suited for applications requiring low moisture regain and greater dimensional stability. Valladyn™ HG230SC is also used in applications requiring good electrical insulation properties and can be processed using conventional techniques.

### Applications:

-  Injection Molding
-  Profile Extrusion
-  Tubing/Cable Jacketing
-  Electrical Connectors
-  Films
-  Compounding

### Typical Properties

Physical Properties	Typical Values	Unit	Test Standard
<b>Density</b>	1.04	<i>g/cm<sup>3</sup></i>	ASTM D792
<b>Water Absorption</b> (24hr Immersion)	0.33	%	ASTM D570
<b>Relative Viscosity</b> (96% Sulfuric Acid)	~ 1.61	--	ISO 307
<b>Melt Flow Rate</b> (235°C w/ 1,000g)	~ 17.0	<i>g/10min</i>	ASTM D1238

Thermal Properties	Typical Values	Unit	Test Standard
<b>Mold Shrinkage</b> (Flow Direction)	1.3	%	ASTM D955
<b>Melting Temperature</b>	217	°C	DSC
<b>Heat Deflection Temperature</b> (0.46MPa)	162	°C	ASTM D648

Mechanical Properties	Dry / Cond.	Unit	Test Standard
<b>Tensile Modulus</b>	1911 / 1676	<i>MPa</i>	ASTM D638
<b>Tensile Stress at Yield</b>	67.1 / 63.0	<i>MPa</i>	ASTM D638
<b>Tensile Strain at Yield</b>	6.6 / 13.7	%	ASTM D638
<b>Tensile Stress at Break</b>	44.4 / 43.0	<i>MPa</i>	ASTM D638
<b>Tensile Strain at Break</b>	53.0 / 79.0	%	ASTM D638
<b>Flexural Modulus</b>	2093 / 1813	<i>MPa</i>	ASTM D790
<b>Flexural Stress</b>	78 / 69	<i>MPa</i>	ASTM D790
<b>Izod Notched Impact Strength</b> (23°C)	48	<i>J/m</i>	ASTM D256